

Panasonic®

Personal Computer

OPERATING INSTRUCTIONS

CF-63 Series



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CF-63 Quick Guide

(On-line manual on the hard disk)

Click  on the screen.

-Contents-


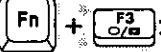
- DVD Player
- Key Combinations
- Status LCD

Customer's Record	
Model No. _____	Dealer's Name _____
Serial No. _____	_____
or	
Code No. _____	Dealer's Address _____
Date of Purchase _____	

Introduction

Thank you for purchasing the Panasonic CF-63 series computer. Please read the operating instructions thoroughly for proper operation of your new computer.

Illustrations in this Manual

NOTE:	NOTE provides a useful fact or helpful information.
CAUTION:	CAUTION indicates a condition that may result in minor or moderate injury.
WARNING:	WARNING indicates a hazard that may result in moderate or serious injury.
[Start]-[Shut Down]:	This illustration means to click [Start], then to click [Shut Down]. (For some applications, you may need to double-click.)
	This illustration means to press the [Enter] key.
	This illustration means to press [Fn], and while holding down on [Fn], to press [F3].

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TranXit™ is a trademark of Puma Corporation.

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For U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

For U.K.

Warning

This apparatus must be earthed for your safety.

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe.



For your safety, if you have any doubt about the effective earthing of the power point, consult a qualified electrician.

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 3 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 3 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.


Warning: THIS APPLIANCE MUST BE EARTHED.

Important

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  coloured GREEN or GREEN-and-YELLOW.

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured BLACK.

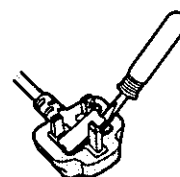
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured RED.

The mains plug on this equipment must be used to disconnect the mains power.

Please ensure that a socket outlet is available near the equipment and shall be easily accessible.

How to replace the fuse

Open the fuse compartment with a screwdriver and replace the fuse.



Warnings

- This equipment is not designed for connection to an IT power system.

(An IT system is a system having no direct connections between live parts and Earth; the exposed-conductive-parts of the electrical installation are earthed.)

An IT system is not permitted where the computer is directly connected to public supply systems in the U.K.)

- Disconnect the mains plug from the supply socket when the computer is not in use.

This equipment is produced to BS800/1983.

Lithium Battery

Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored in it.

The battery should only be exchanged by service personnel.

Warning! Risk of explosion from incorrect installation or misapplication!

Warnung bezüglich der Lithiumbatterie (Sicherungsbatterie)

Lithiumbatterie!

Dieser Computer enthält eine Lithiumbatterie zur Sicherung von Datum und Uhrzeit der eingebauten Uhr sowie anderer Systemdaten im Speicher bei einer Unterbrechung der Hauptstromversorgung. Diese Sicherungsbatterie darf nur von Kundendienstpersonal ausgewechselt werden.

Warnung! Bei falschem Gebrauch besteht Explosionsgefahr!

Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

Avertissement concernant la pile au lithium (pile de sauvegarde)

Pile au lithium!

Le micro-ordinateur renferme une pile au lithium qui permet de sauvegarder certaines données comme la date et l'heure notamment. Elle ne devra être remplacée que par un technicien qualifié.

Avertissement! Risque d'explosion en cas de non respect de cette mise en garde!

DVD Drive Caution

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL

WARNUNG!

DIESES PRODUKT ERZEUGT LASERSTRAHLUNG.

DURCHFÜHRUNG ANDERER VORGÄNGE ALS DER HIER ANGEGBENEN KANN ZU GEFÄHRLICHER STRAHLUNG FÜHREN.

REPARATUREN DÜRFEN NUR VON QUALIFIZIERTEM FACHPERSONAL DURCHGEFÜHRT WERDEN.

AVERTISSEMENT!

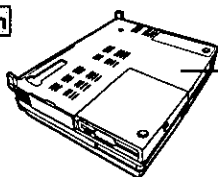
CET APPAREIL UTILISE UN LASER.

L'UTILISATION DE COMMANDES OU DE RÉGLAGES OU L'EXÉCUTION DE PROCÉDURES AUTRES QUE CELLES SPÉCIFIÉES ICI PEUVENT PROVOQUER UNE EXPOSITION À DES RADIATIONS DANGEREUSES.

NE PAS OUVRIR LES COUVERCLES NI ESSAYER DE RÉPARER SOI-MÊME.

CONFIER TOUT TRAVAIL D'ENTRETIEN À UN PERSONNEL QUALIFIÉ.

Bottom



CLASS 1 LASER PRODUCT
LASER KLASSE 1

Precautions

● Usage

Avoid Extreme Heat and Cold

Do not store or use the computer in locations exposed to heat, direct sunlight, or extreme cold. Avoid moving the computer between locations with large temperature differences.

Operation: 5 °C to 35 °C (41 °F to 95 °F)

Storage: -20 °C to 60 °C (-4 °F to 140 °F)



Avoid Direct Sunlight on the LCD Panel

The LCD panel should not be exposed to direct sunlight or ultraviolet light.



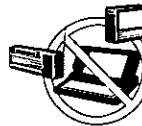
Avoid Humidity, Liquids and Dust

Do not store or use the computer in locations exposed to high humidity, liquids (including rain) or dust.



Prevent Shock

Avoid subjecting the computer to severe vibrations or impact. Do not place the computer inside a car trunk.



Avoid Radio Frequency Interference

Do not place the computer near a television or radio receiver.

● Handling



Avoid Magnetic Fields

Keep the computer away from magnets.



Avoid Stacking

Do not place heavy objects on top of the computer.



Keep Small Objects Away

Do not insert paper clips or other small objects into the computer.



Do Not Disassemble the Computer

Do not attempt to disassemble your computer.



Avoid Excessive Force on the LCD Panel

Do not apply excessive downward force on the display when it is completely opened, especially when plugs and/or cables are connected to the rear of the computer.

● Cables

Use of an interface cable longer than 3 m (9.84 feet) is not recommended.

Read Me First

Saving Data on the Hard Disk

- **Do not expose your computer to shock.**
Please use care when handling your computer, shock may damage your hard disk or make your software applications and data unusable.
- **Do not power down your computer while software applications are running or HDD indicator (H) is on.**
Properly shut Windows* down to avoid problems ([Start]-[Shut Down]).
- **Save all valuable data to floppy disks.**
Backing up data to floppy disks will limit damage should trouble occur to your computer or should you inadvertently change or erase data.
- **Use the security function for all important data.**
☞ page 22 Security Measures

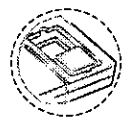
* This computer uses Microsoft® Windows® 95 Operating System.

Saving Data on Floppy Disks

- **Do not power down your computer or press the floppy disk drive eject button while the FDD indicator (F) is on.**
Doing so may damage the data on the floppy disk and render the disk useless.
- **Use care when handling floppy disks.**
To protect the data on your floppy disks or to prevent a floppy disk from becoming stuck in your computer, avoid the following:
 - Sliding the shutter on the floppy disk manually.
 - Exposing the disk to a magnetic field.
 - Storing the disk in locations prone to high temperatures, low pitched noise, dampness, or dust.
 - Applying more than one label on the disk.
- **Confirm the contents of a floppy disk before formatting it.**
Confirm that no important data is on the disk, because all data on the disk will be erased.
- **Use the write-protect tab.**
This is a must for preserving important data. This prevents your data from being erased or overwritten.



Write Enable



Write Disable

Computer Viruses

- **Users are advised to purchase the latest versions of virus protection software and use them regularly.**
We recommend you run the software:
 - When booting your computer.
 - After receiving data.We recommend that you check data received on floppy disks or from external sources, such as data downloaded from the Internet, e-mail, etc. (For compressed files, please uncompress them before running a check).

Other Precautions

For information on other important items including network-related items, please refer to the chapter on "Technical Information" (☞ page 38). We recommend a reading of the chapter.

First-time Operation


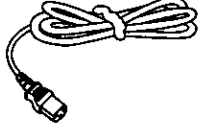


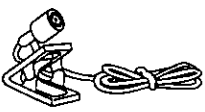


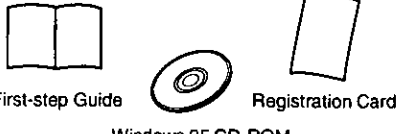
It's now time to get started. Please read the steps below to help you learn what parts are included, and to gain an understanding of some basic computer-related operations.

1 Confirm the inclusion of all parts

Make sure the parts shown in the figure have been supplied. If any of them is missing or is not working properly, please consult your nearest Panasonic dealer.

CAUTION

Please prepare one 2HD formatted floppy disk to create a backup disk of the Panasonic utilities. This backup disk is to be used when reinstallation of the Panasonic utilities becomes necessary.

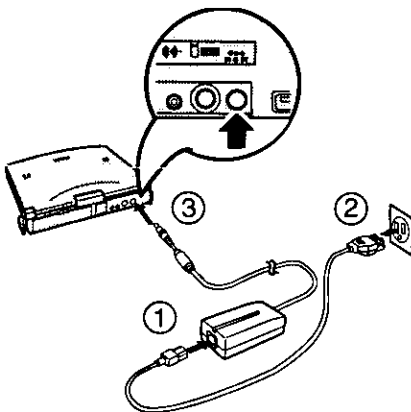
AC Adapter 1  CF-AA159	AC Cord 1 
FMV Pack2 1  CF-VEV631	Operating Instructions 1 
Microphone 1 	Firstaid CD 1 
TranXit 1  Registration Card Accessory Catalogue	Windows 95 System Pack 1  First-step Guide Windows 95 CD-ROM Registration Card

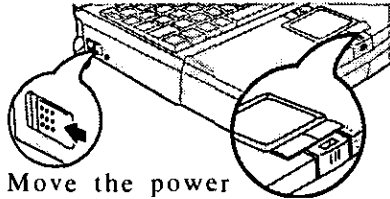
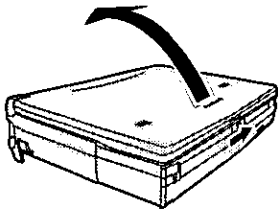
2 Connect your computer to a power outlet

CAUTION

Handling the AC adapter

- Do not twist or pull the AC power cord forcefully. Doing so may damage the connections.
- Use only the specified AC adapter (factory control number: CF-AA159) with your computer. Using an AC adapter other than the one supplied might damage the battery and/or the computer.
- When the DC plug is not connected to the computer, disconnect the AC cord from your AC wall outlet as well.
- Problems such as sudden voltage drops/surges may arise during periods of thunder and lightning. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended.





Move the power switch toward the rear direction and hold it there for one second until the power indicator goes on before releasing it.

3 Read the LIMITED USE LICENSE AGREEMENT (page 42)

Confirm that the floppy disk drive is installed.

Before removing the seal covering the power switch, please read the LIMITED USE LICENSE AGREEMENT. Removal of this seal indicates agreement to the terms specified. To open the display, slide the latch located at the front and lift open the display. After you have agreed to the terms, you may turn your computer on.

CAUTION

- Do not slide the power switch repeatedly.
- After you have turned your computer off, you must wait ten seconds before you can turn it back on.

4 Set Windows up

The [Windows 95 Setup] will run after the computer is turned on. Simply follow the on-screen instructions.

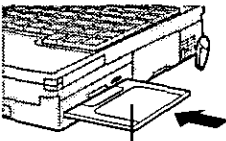
NOTE

- Please read the supplemental "Windows 95 Setup Procedure" for a more detailed explanation (page 45).
- Moving the cursor (mouse) or clicking buttons can be done through the touch pad (page 10).
- If the display or the sound quality is not right, you can adjust the brightness and volume (page 48).

5 Double-click (Panasonic Setup icon) on Windows

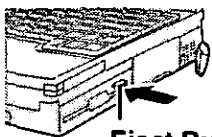
One 2HD formatted floppy disk needs to be prepared. First, write "Firstaid FD" on a blank label, then stick this label on the floppy disk. Simply follow the on-screen instructions.

● Inserting a floppy disk



Label-side up
Label on the top surface, and inserting the shutter-side headfirst.

● Ejecting a floppy disk




Eject Button

CAUTION

- Please store the "Firstaid FD" in a safe place. It will enable you to return your computer to factory condition should any problems occur.
- Do not remove the floppy disk while the FDD indicator () is on, power down your computer or use the suspend function (page 11).

NOTE

About the CF-63 Quick Guide 

- This is available as an on-line guide which includes information on the key input commands, Status LCD, DVD player and the "CF-63 Readme*1". The "CF-63 Readme*1" also contains detailed information.
- For the Quick Guide, we recommend setting the Desktop area to "1024 by 768 pixels" and the Color palette to "High Color (16 bits)" or more.

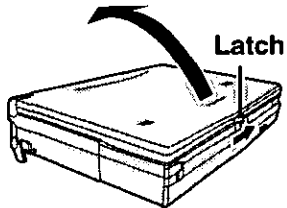
*1 Depending on the model, some information may not be available in the Readme file.

This concludes the first-time use operation guidelines.

Starting Up/Shutting Down

Starting Up

1 Open up the display

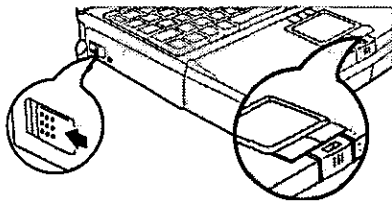


Slide the latch as shown and lift open the display.

NOTE

Do not turn on the computer with the LCD panel closed if an external monitor is not connected. The computer will not power on.

2 Turn your computer on

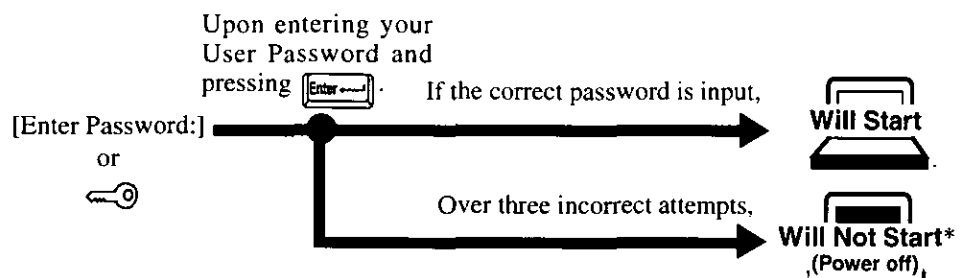


Move the power switch toward the rear direction and hold it there for one second until the power indicator goes on before releasing it.

CAUTION

- Do not slide the power switch repeatedly.
- After you have turned your computer off, you must wait ten seconds before you can turn it back on.
- Do not turn the computer ON while your fingers are in contact with the touch pad. Problems may occur in the operation of the touch pad.

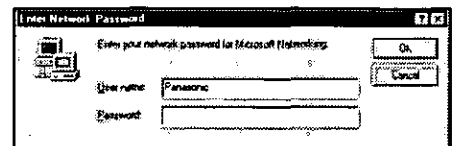
- If [Enter Password:] or security indicator (⌨) is displayed, you must first enter your User Password (☞ page 22).



* If you are starting from the suspend mode (☞ page 11), if after three attempts the correct password is not input, or if no password is entered for about a minute, the computer returns to the suspend mode.

NOTE

If the display on the right appears, the network password has been set. To read and write data to other computers, the correct password must be entered.



- When an application or file that was previously displayed appears on your screen, this means the suspend or hibernation mode (☞ page 11) has been set.

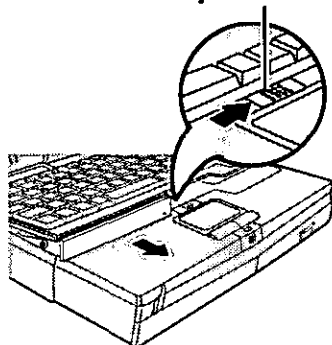
3 Select your application

You are able to start working on your computer.

Using the DVD Drive

The DVD Drive is assigned to drive "L".

Disc Eject Button



NOTE

If you decide to change the drive name (for example, when setting another drive), it is also necessary to simultaneously change the [Drive Path] in [Setup] for the DVD Player.

1 Turn your computer on

2 Slide and hold the disc eject button

The keyboard opens and the tray is partially extended, slowly pull it out by hand until fully extended.

3 ● Inserting a disc

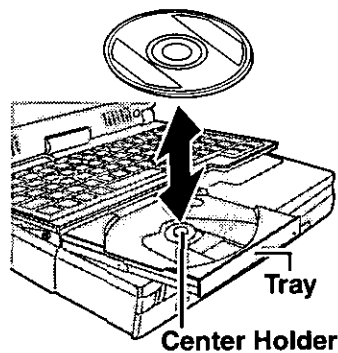
Hold the disc so that your hand does not touch the data surface. Place the disc with the label facing upward in the drive and push down until the center holder clicks.

● Removing a disc

Place a finger on the center holder and lift up on the edge of the disc.

NOTE


To remove a disc when the computer is powered off;  page 35



4 Close the tray

After the tray is pushed all the way in, the keyboard closes automatically.

CAUTION

- Do not insert your fingers into the keyboard opening. In particular, be very careful not to get fingers, etc., caught in the keyboard during loading.
- Do not move the computer with a disc inserted in it.
- After closing the tray, do not attempt to access a disc until the DVD drive indicator (Ⓢ) disappears.
- The DVD drive will not open if the battery level is low (less than 9%).
- Under some conditions, dust may build up on the optical lens or disc, possibly resulting in malfunction.
- Do not use the computer in a location where there is a lot of oily smoke or tobacco smoke. Doing so could shorten the service life of the lens.
- Do not leave the tray open or touch the lens.
- When the tray is open, applying too much force on the tray could damage it.
- Do not open the DVD drive while the DVD drive indicator (Ⓢ) is on.
- Do not insert paper clips or other small objects into the DVD drive.
- Touching the data surface can make it dirty or even damage the disc. (For details on maintenance  page 32). Particularly, a DVD-Video is influenced by dirt or damage, so it may not play or work properly. Be careful not to scratch a disc when handling.
- Do not use a disc that has become deformed (warped), is not completely round, etc.

Starting Up/Shutting Down

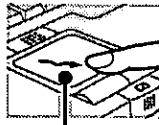
Using the Touch Pad

Use the touch pad to move the cursor on the display and perform normal computer operations. It is not necessary to apply too much pressure on the work surface.

CAUTION

Do not turn the computer ON while your fingers are in contact with the touch pad. The operation of the touch pad may be affected. If operation is affected, wait at least five seconds before using the computer.

● Moving the cursor

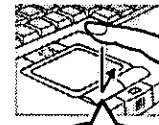


Work Surface



Cursor

● Clicking

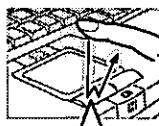


One tap



One tap

● Double-clicking

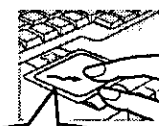


Two quick taps



Two quick taps

● Dragging



While holding down the button, moving your finger on the work surface



Two quick taps, but on the second tap leaving your finger down (applying pressure) and moving it on the work surface. One tap when your finger will "drop" the object.


NOTE

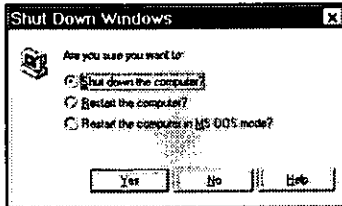
To change the touch pad settings, select [Mouse] in [Start] - [Settings] - [Control Panel]. Even if [Left-handed] is selected in the mouse settings, tapping the touch pad will have the same effect as clicking the left button of the touch pad.

Shutting Down (power off your computer)

- 1 To shut down, save all data and select [Shut Down] from the [Start] menu

NOTE

From the keyboard, you may choose to press down on , then select [Shut Down].



- 2 Confirm shutdown

Press to confirm shutdown. Your computer will power off automatically. (In the OFF state, if you are not recharging your battery pack or if the pack is fully charged, your computer consumes approximately 1.5W.)

- Restarting your computer (without shutting down)

Select after selecting [Restart the computer?].

NOTE

To quickly resume computer operation after shutting down, the suspend and hibernation functions are available (☞ below).

- Restarting your computer in MS-DOS mode

Select after selecting [Restart the computer in MS-DOS mode?].

NOTE

When returning to Windows 95 from the MS-DOS mode, type "EXIT" and not "WIN". Returning to Windows 95 using the "WIN" command may result in a malfunction.

Starting Up Your Computer Quickly

If you want to immediately start up and continue an application after shutting down your computer, you can do so by using the suspend or hibernation function.

- Differences between the suspend function and hibernation function

Function	Where data is saved to	Speed	Requires power supply
Suspend function	Memory	Fast	Yes (if power is cut, all data is lost)
Hibernation function	Hard disk	Somewhat slow	Power not required to maintain data

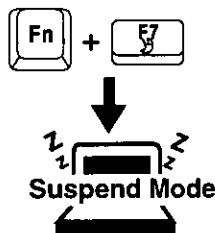
Shutting Down

- Using the suspend function

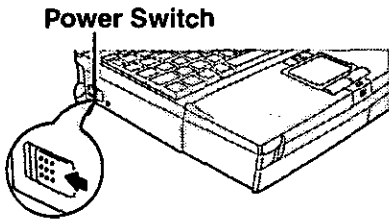
NOTE

You can use the suspend function by selecting [Suspend]* from the [Start] menu.

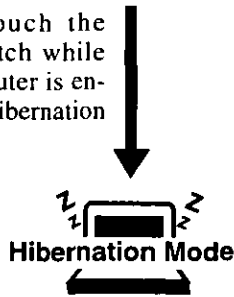
* [Suspend] is deleted from the [Start] menu by unchecking [Allow Windows to manage power use on this computer.] in [Start] - [Settings] - [Control Panel] - [Power] or by unchecking [Show suspend command on Start menu] in [Advanced].



Starting Up/Shutting Down



Do not touch the power switch while your computer is entering the hibernation mode.



● Using the hibernation function

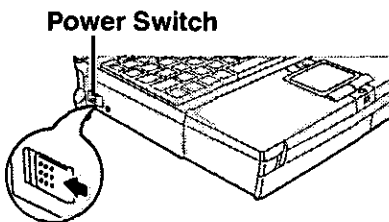
It is necessary to set the hibernation function using the Setup Utility.

- 1 Run the Setup Utility (☞ page 46)
- 2 Using **[↓]** and **[↑]**, select **[Power Management]**, then press **[Enter]**
- 3 Using **[↓]** and **[↑]**, select **[Power Switch]**, set **[Hibernation]** with **[←]**, then press **[Esc]**
- 4 Close the Setup Utility (☞ page 46)

CAUTION

- Save all data before powering off your computer.
- When restarting from or shutting down to the suspend or hibernation mode, do not touch the touch pad or move the mouse (serial or PS/2 type) if one is connected. There are cases where these devices will fail to operate; you will have to restart your computer using the keyboard (☞ page 11).
- Do not power off during the following periods (you may corrupt your data or file):
 - While the FDD indicator (Ⓜ), HDD indicator (Ⓢ) or DVD drive indicator (Ⓛ) is on.
 - While playing/recording audio files.
 - While communications software is being used.
- Do not use the suspend or hibernation function when using an OS other than Windows 95, the diagnostics program (DIAG63), or the Setup Utility, or when experiencing static electricity or noise.
- If you hold down on the **[Alt]**, **[Ctrl]** or **[Shift]** key to enter the suspend or hibernation mode, after resuming operation, you must press the same key. For example, if you hold down on the **[Shift]** key while sliding the power switch, upon resuming, if you do not press the **[Shift]** key again, only capital letters will result from typing.
- If your computer locks up, press the reset button. All data is lost when this button is pressed.
- In the suspend mode, power is consumed. If PC cards (e.g., modem card) are inserted, more of that power is consumed. When all power has been consumed, all data at shutdown is lost since it is retained in memory. We therefore recommend plugging in the AC adapter when using the suspend function.

Resuming Operation



If **[Enter Password:]** or security indicator (Ⓢ) is displayed upon sliding the power switch, your password has been set (☞ page 8).

CAUTION

- Do not install or remove peripherals while your computer is in the suspend (Ⓢ) or hibernation (Ⓢ and Ⓢ) mode; abnormal operation may result.
- When operation resumes, serial devices such as a mouse or modem, or your PC Cards may not work. In such cases, you will need to restart your computer or reinitialize the individual devices.

Playing Full Motion Video

To play DVD-Video or MPEG files, mount the FMV Pack2 in the multimedia pocket. The procedure for changing multimedia pocket units is described below.

Preparations

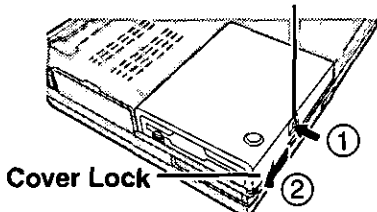
Installing/Removing the multimedia pocket device

- 1 Power off your computer** (page 11)
Do not shut down using the suspend or hibernation mode.

CAUTION

Do not install or remove peripherals while your computer is in the suspend or hibernation mode; abnormal operation may result.

MP Release Button



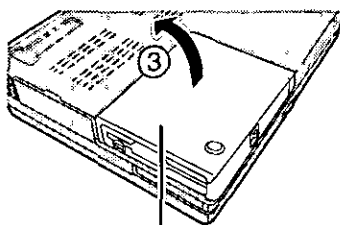
- 2 Removing a multimedia pocket device**

Turn the unit over.

- While holding down the MP release button,
- Slide the cover lock.
- Pull out the multimedia pocket device (floppy disk drive).

CAUTION

Do not leave the multimedia pocket empty, as exposure to dust and dirt can cause malfunctioning. Always keep one of the units installed.



Floppy disk drive

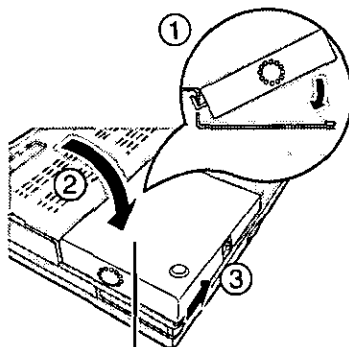
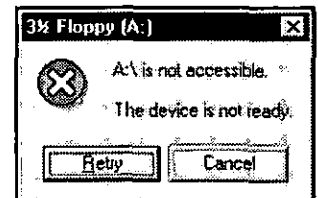
- 3 Installing a multimedia pocket device**

- Hook the device in place.
- Push the device into the multimedia pocket until it snaps into place.
- Slide the cover lock.

Confirm that the MP release button has returned to its original position.

NOTE

Even after installing the FMV Pack2, "3 1/2 Floppy (A:)" is displayed in "My Computer", but access is not possible. When the display on the right appears, select [Cancel].



FMV Pack2

Playing Full Motion Video

Playing DVD-Video or MPEG Files

Color palette	256 color*	High Color (16 bit)	True Color (24 bit)
Desktop area			
1024 by 768 pixels	Supported	Supported	Supported
800 by 600 pixels	Supported	Supported	Supported
640 by 480 pixels	Supported	Supported	Supported

* Even when the Windows setting is for 256 colors, the MPEG data play window can display up to approximately 260,000 colors.

Display mode (Internal LCD, External Display, or Simultaneous (both))

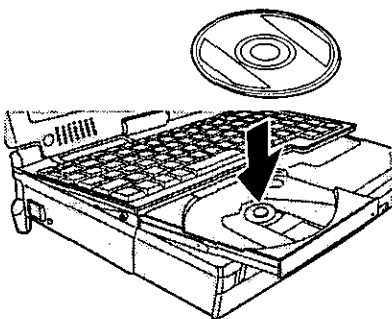
Set using the Setup Utility. (☞ page 29, 46)

Desktop area and Color palette

Set using the Display Properties. (Select [Start] - [Settings] - [Control Panel] - [Display] - [Settings])

NOTE

- Regardless of whether DVD-Video playback has been activated or not, when the player is operating, a screen saver will not activate.
- If you have set a screen saver, the saver will activate during MPEG playback.
- Do not use MPEG screen savers during MPEG playback (Media Player), as an error will occur.



1 Load the disc you wish to play

Insert the DVD-Video or disc that contains MPEG files.

You may also copy MPEG files onto the hard disk.

DVD-Video bearing  logo can be played.

NOTE

- Some parts of the DVD-Video functions are not supported.
- It is necessary to close any open MIDI playback application. Also, do not open any MIDI playback application during DVD-Video (or MPEG file) playback.
- Select [Start]-[Programs]-[Accessories]-[Multimedia]-[Volume Control], delete the check mark for [Mute] in [Synthesizer].

2 Open the viewer application

● DVD-Video

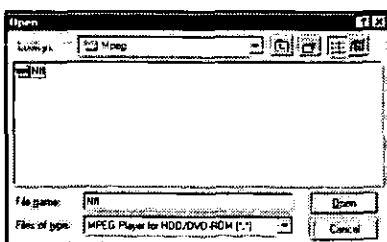
Select [Start] - [Programs] - [Panasonic] - [DVD Player].

● MPEG files

Select [Start] - [Programs] - [Accessories] - [Multimedia] - [Media Player], then select [MPEG Player for HDD/DVD-ROM] in the [Device] menu.

Once the dialog box appears, select the name of the file you wish to play, then select





NOTE

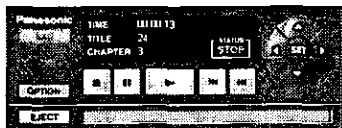
MPEG Files:

- Files with the following formats can be played.
Files with the .MPG or .MPEG extension : Also image and voice files compressed under MPEG1 or MPEG2.
There are cases in which some data cannot be played.
- To play a file from [Windows Explorer] or [My Computer], click the file you wish to play with the right button of the touch pad, and select [Play (FMV Pack2)] from the pop-up menu that appears.

Video CDs:

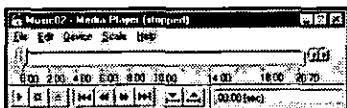
- The [Media Player] can play each file (.DAT), one after the other, in the "Mpegav" folder on a Video CD.
- The combined play of Video CDs is not possible and the playback control function (Video CD Version 2.0) is not supported.

● **DVD-Video**



(☞ CF-63 Quick Guide ; on-line manual on the hard disk)

● **MPEG files**



3 Use the function buttons for play and stop operations

Troubleshooting

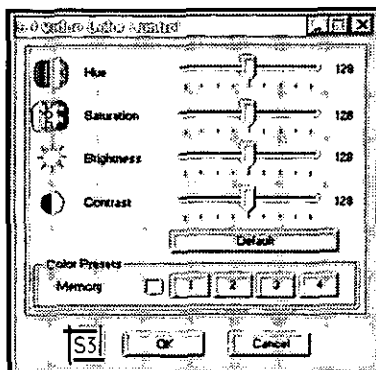
For information on trouble shooting concerning the DVD Player, please refer to the CF-63 Quick Guide available as an on-line manual on the hard disk.

No DVD Player menu appears *1	The program needs to be installed.
[FMV Pack2 is not installed.] is displayed *1	The FMV Pack2 may be improperly installed. Refer to "Preparations" (☞ page 13).
[Files necessary to run the player cannot be found.] is displayed *1	Files needed to run the player is missing or is corrupted. It is necessary to reinstall the video driver. (Refer to your CF-63 Operating Instructions)
[DVD Player initialization failure.] is displayed *1	An error occurred during initialization of the player application. This occurs when the color palette is set to "16 Color", or when another application that is using a large part of the video memory is running. It is necessary to refer to the "Color palette" (☞ page 14) on the correct setting, or to close the application that is using a large part of the video memory and restart the player.
[Device specified is currently in use by another application.] is displayed *1	Hardware necessary for running the application is currently being used by another application. It is necessary to close the other application and restart the player.
[Application is already opened.] is displayed *1	The player application has already been opened. It may be hidden in another window.
[Your disc may be invalid or the disc tray is empty.] is displayed	The disc in the DVD Drive may not be a DVD-Video disc or the disk tray may be empty. After the disc has been set, please wait until the DVD drive indicator (Ⓞ) goes off. In addition, confirm whether or not the Drive Path setting is correct (Refer to "Drive Path" in the CF-63 Quick Guide).
You have forgotten the Password to change the Parental Level	Select [Start] - [Run], input ["c:\Program Files\Panasonic\ResetPWD.EXE"] and press Enter. The password is reset.

*1 Or, in the [Device] menu for the [Media Player], [MPEG Player for HDD/DVD-ROM] is not available (cannot be selected).

Playing Full Motion Video

Adjusting the Configuration



Select [Start] - [Settings] - [Control panel] - [S3 Video Color Control].
The setting's window will be displayed.

CAUTION

Perform image adjustment while viewing the play screen.
Adjustments cannot be made when the play screen is not displayed.

The following restrictions apply during play

- Do not use the player with the standby, suspend, or hibernation function.
- While DVD-Video (or MPEG file) is being played, the speed at which other applications are executed or the speed at which the keys are input on the keyboard may be reduced.
- If you run other applications during play the image or sound may be disrupted.
- "MS-DOS Prompt" cannot be used during DVD-Video (or MPEG file) playback. Abnormal operation may occur if it is used.
- Playback may temporarily stop (a few seconds) when the LCD is opened and closed.
- Do not change the display mode during playback.
- When the player start up, the video mode is automatically selected to enable the FMV Pack2. For this reason, the screen may temporarily flicker during startup.
- DVD-Video purchased in other countries may not be viewable.
- DVD-Video discs will not trigger the "Auto insert notification" function after being set on the tray.
- When using the FMV Pack2, it is not possible to simultaneously play DVD-Video and an MPEG file, or multiple MPEG files.
- No sound is produced for the conditions of Pause, Fast Forward, Fast Reverse, Slow Forward and Slow Reverse.
- Slow Reverse will not display all frames.
- Changing the desktop area of Windows will close the player.
- For some scenes, the operation of basic functions (e.g., play/stop) will not be allowed, the Audio setting or Angle setting cannot be changed, or the TITLE menu or DVD menu will not be displayed.
- Regardless of whether playback has been activated or not, when the player is operating, do not open the tray of the DVD drive by sliding the disc EJECT button (located over the touch pad).
- If MPEG files (MPEG1) can not be played as described here (☞ page 13), try playing the files with another application such as ActiveMovie, etc.

Computing On the Road






One of the main features of notebook-type computers is that you have the power of computing away from your home or office. In the following, information is provided on how to maximize use of the battery pack which is necessary for such computing.

● Four Important Points

- POINT-1** Be sure to charge your battery before and after use.
- POINT-2** To get the maximum use of your battery, set the power management mode.
- POINT-3** Check to see that you have your AC adapter with you before leaving your home or office.
Purchasing an extra battery (CF-VZS611) or the optional battery charger (CF-VCB611) is highly recommended.
- POINT-4** Always watch your battery level!

Conserving Power

Things to Remember.

- **Leave your computer off when it is not in use** (☞ page 11)
- **Adjust the brightness (dark) with**  + ,  (☞ page 48)
- **Before stepping away from your computer, press**  +  **to put your computer in the standby mode**
The standby mode helps you conserve power by cutting off power to the DVD drive's motor and LCD etc.. To resume, you may press any key.
- **In the power management mode, the setting of [Advanced] is recommended** (☞ page 18)
With the Setup Utility, you can set the [Advanced] mode. This mode allows you to maximize power save regardless of whether you are using only the battery pack or the AC adapter.
- **Setting the hibernation timeout** (☞ page 18)
The hibernation function (☞ page 12) allows you to save power by automatically cutting off power when the computer is idle or there is no access to individual devices for 4 or 16 minutes. If [Advanced] or [Standard (Battery/AC adapter)] is selected for [Power Saving], the hibernation timeout function will go into effect for both the battery pack and the AC adapter. If, however, [Standard (Battery)] or [OFF] is selected for [Power Saving], it will go into effect only during operation by the battery. The standby timeout function is automatically set when [Advanced] or [Standard] is set. Note that the standby timeout precedes the hibernation timeout.
It should be noted that for some applications, the hibernation timeout will not work properly.

NOTE

If you plan to use only the battery pack or set the power management, it is necessary to check [Allow Windows to manage power use on this computer] in [Start] - [Settings] - [Control Panel] - [Power]. If no check is added, the hibernation timeout will not occur.

Computing On the Road

Setting Power Management

(How to set [Advanced] and the hibernation timeout)

- 1** Run the Setup Utility (☞ page 46)
- 2** Using **[↓]** and **[→]**, select **[Power Management]**, then press **[Enter]**
- 3** Using **[↓]** and **[→]**, select **[Power Saving]**, then set **[Advanced]** with **[→]**
(To avoid setting the hibernation timeout, press **[Esc]** and proceed on to step 6.)
- 4** Using **[↓]** and **[→]**, select **[Power Switch]**, then set **[Hibernation]** with **[→]**
- 5** Using **[↓]** and **[→]**, select **[Hibernation Timeout]**, set either **[4 min]** or **[16 min]** with **[→]**, then press **[Esc]**
- 6** Close the Setup Utility (☞ page 46)

● Power Management settings

Power Management	Functions automatically set	CPU Speed Change Mode	HDD and DVD Motor Timeout	Standby Timeout
Advanced		Enable	1 min	1 min
Standard (Battery/AC adapter)		Enable	1 min	2 min
Standard (Battery)*		Enable	1 min	2 min
OFF		Disable	Never	Never

* Enabled only when the battery itself is being used.

- **CPU Speed Change Mode:** In this mode, the CPU is automatically stopped when there are no operations.
- **HDD and DVD Motor Timeout:** When the DVD or hard disk drive is not accessed for more than a minute, power to the motor is shut off.
- **Standby Timeout:** When the computer is idle or a device is not accessed for one or two minutes, the computer enters the standby mode.

CAUTION

When you need a network environment.

Be sure to disable the hibernation timeout settings with the Setup Utility.

After resuming operation from the hibernation mode, the network connection may be severed or the computer will not work properly.

In communications when a device like a high-speed modem or ISDN terminal adapter is connected to the serial port, etc.

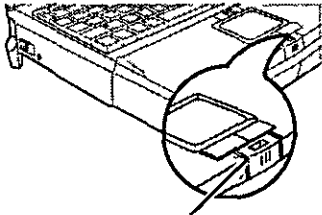
There are times when high-speed communication is adversely affected if the power management function is enabled. Please confirm that is displayed by pressing **[Fn]** + **[F5]** to disable the power management function. After you have finished using a communication device, you can enable the power management function by pressing **[Fn]** + **[F5]**.

Key operation and full motion video or music playback

When the power saving function is running, you may feel that key and mouse operations are sluggish. Furthermore, DVD-Video, MPEG file, or music may not be played back correctly when entering the standby mode during playback.

Battery Status

Use the Battery Indicator to Check on the Battery Status



Battery Indicator

Battery Indicator	Battery Status
Orange*	Charging
Green*	Fully-charged
Red	Battery charge is low (the charge is less than approx 9% capacity)
Blinking red*	Battery pack or charger may not be working properly Check your connections. If the problem persists, consult your nearest Panasonic dealer
Blinking orange for 5 seconds after the AC adapter is connected*	Unable to recharge due to violation of temperature limits (☞ page 20)

* When the AC adapter is connected

NOTE

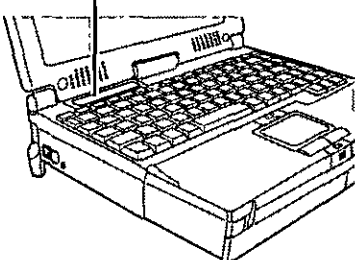
Recharging is temporarily stopped when the DVD drive is being accessed. In this case, the battery indicator goes off temporarily. In addition, recharging is temporarily discontinued when [Auto insert notification] (CD-ROM auto play function) is enabled.

● Getting a detailed reading

A detailed percentage reading of the battery power remaining can be obtained on the Status LCD



Status LCD



NOTE

- The remaining power indicator flashes when the battery is low
- The borders of the indicator (▣) flashes on and off if no battery pack is mounted
- An error code is displayed if a battery malfunction occurs (☞ CF-63 Quick Guide)
- When the battery indicator remains red (or a 99% reading is displayed) for a long period of time, the actual remaining battery level and the displayed level in all likelihood differ. Should this occur, charge the battery until the indicator is green, then completely discharge the battery (Disconnect the AC adapter, turn the computer ON and let the power run down to 0% on the Status LCD)

When the Remaining Battery Charge Becomes Low

Following that.

- Plug in the AC adapter, and fully charge your battery
- Use a spare battery if you have one
- If you have neither the adapter nor an extra battery, save your data and power off your computer

● If the hibernation function is set

Red indicator lights
Beep sounds**
(at approx 9% capacity) → **Hibernation Mode**
(at approx 4% capacity)

** When disabling the speakers with the Setup Utility (or pressing [Fn] + [F5]) the warning beep is also disabled

● If the hibernation function is not set

Red indicator lights → Beep sounds → **Computer goes off**
(at approx 9% capacity) (at approx 4% capacity) (at approx 0% capacity)

Using the Battery Pack

Precautions

- Care should be exercised with regard to the following in order to avoid the possibility of liquid leakage, overheating, or bursting.
 - Do not throw the battery pack into a fire or expose it to heat.
 - Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing it.
 - Do not insert sharp objects into the battery pack, expose it to bumps or shocks, deform it, disassemble it, or modify it.
 - Do not short the positive (+) and negative (-) contacts.
 - The battery pack is a rechargeable battery intended for use with the CF-63 series or the specified charger (CF-VCB611). Do not use it with a computer other than the one for which it was designed.
 - Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in an automobile on a sunny day, for example), or in a cold place.
- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery to water, or allow it to become wet.
- Do not put the battery into a microwave oven or a pressurized chamber.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% of capacity ([95]).
- If the battery should leak and some of the fluid gets into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.
- Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the unit or charger and discontinue use.
- If the battery pack will not be used for a long period of time (a month or more), charge the battery pack until the remaining battery level becomes 30% to 50% and store it in a cool, dry place.
- Charging does not take place while the DVD drive indicator ([DVD]) is on.
When recharging the battery pack, set the Power-saving function to [Advanced] or [Standard (Battery/AC adapter)].

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 35 °C (32°F to 95 °F)). To allow the battery to charge, adjustments have to be made to the temperature. Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10°C or less.)
- If the temperature is low, the operating time is shortened. Therefore, please use the computer within the allowable temperature range.
- Although the battery has not begun to run out, the battery indicator may sometimes light up red, emit a beep, and [BL] may flash on and off. This indicates a significant rise in the temperature of the battery pack. This is typically caused by the fact that the battery pack has been delivering a high level of power because the computer has been used with the display at the brightest setting and with the power-saving function off. In order to protect the battery pack from temperature rises, connect the AC adapter, set the power-saving function, and turn down the brightness of the display. If power discharge continues for 5 minutes or more while the battery pack's temperature remains high, the computer switches automatically to the suspend mode and turns itself off.

Replacing the Battery Pack

When the charge provided by your battery pack is supplied for only a short period of time, even after full charging according to the instructions, it may be time to replace your battery pack. The battery pack is a consumable item and therefore will require replacement (CF-VZS611)

1 Power off your computer (☞ page 11)

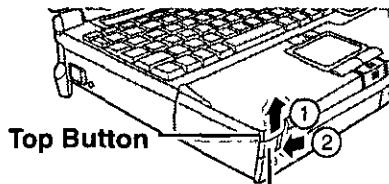
Do not shut down using the suspend mode

CAUTION

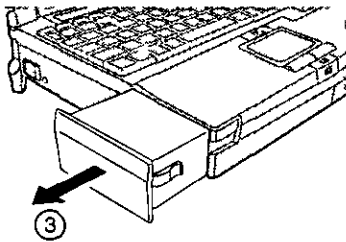
In the suspend mode, do not remove/change the battery pack. Removing the pack in the suspend mode will erase your data and may damage the battery pack.

2 Taking out the battery pack

- ① Slide the top button up, and
- ② Press and slide the bottom button to the direction indicated



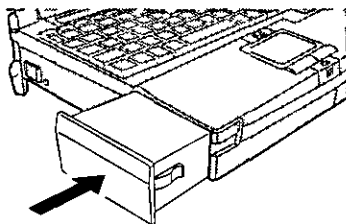
Bottom Button



- ③ Pull out the battery pack

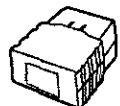
Inserting a battery pack

With the label facing up, insert the battery pack into the computer until it clicks into place



NOTE

Besides the AC adapter (CF-AA159) an optional battery charger (CF-VCB611) is available. This device is convenient in that it allows you to charge another battery pack while you are using the computer.



Security Measures

To prevent illegal data access or theft, or theft of your computer, various security measures are provided below.

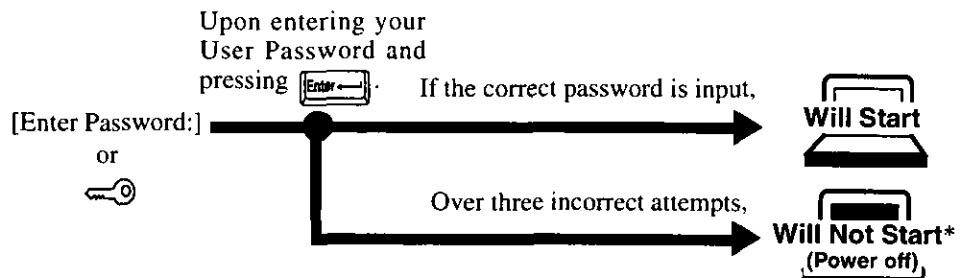
Situation	Function to use	Reference
You do not want your computer to be used without permission	User Password	☞ below
Same as above, but while you're away temporarily	Coffee break Password	☞ page 23
You want to prevent theft or damage to data by using a floppy disk	Prevent operation by using a floppy disk	☞ page 24
You do not want your Supervisor Setup changed without permission	Supervisor Password	☞ page 24
You want to prevent theft of your computer	Use a security lock	☞ page 48

When you do not want your computer to be used without permission

Set the User Password.








Without the password, access to your computer is impossible.

● When the User Password is set





* If you are starting from the suspend mode (☞ page 11), if after three attempts the correct password is not input, or if no password is entered for about a minute, the computer returns to the suspend mode.




Setting the user password (enabling, changing, disabling)







- 1 Run the Setup Utility (☞ page 46)
- 2 Using  and , select [System Setup], then press .
- 3 Using  and , select [User Password], then press .
- 4 ● To enable or change your password
Enter your password at the [Enter User Password], then press .

CAUTION

- Your password will not be displayed on the screen.
- Please limit your password to seven characters. Note that there is no distinction between upper and lower case letters.
- White colored keys can be used. Note that the space bar and function keys cannot be used.
- Do not input your password while holding down on  or .
- Use only the upper horizontal row of numeric keys to input your user password. The numeric keys combined with alphabet keys on the lower keyboard cannot be used.
- Do not forget your password. If a password is forgotten you will be unable to use your computer.


● To disable your password

Using the  and  keys, select [Delete User Password], then press . Go to step 7.

- 5** Reenter your password at the [Enter User Password Again] (This is for confirmation purposes.)
- 6** Using  and , select [Set User Password], then press .
- 7** At the confirmation screen, press .
- 8** Press  to end the password setting procedure
- 9** Close the Setup Utility ( page 46)

CAUTION

To prevent the changing of your password without permission




- When running the Setup Utility program, do not leave your computer even for a short time.
- Set the User Password Protection option ( page 25).

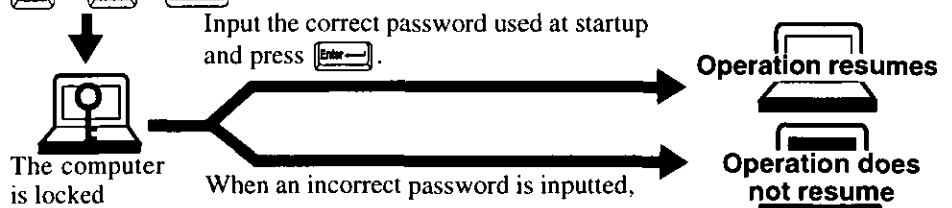
When you do not want your computer to be used without permission while away temporarily

You should set the “Coffee break Password” (Note that you must first set the User Password). When you input your selected key combination, the computer locks (key input, use of the touch pad and use of an external mouse are no longer possible).

● **When the coffee break password is set**

When leaving your desk













 +  +  (Example of a selected key combination)



CAUTION

- Do not leave your computer just after sensitive data had been shown on the screen.
- It is impossible to lock your computer from an external device, such as a mouse connected through the serial port.

Setting the Coffee break Password (enabling or disabling)

- 1** Set the User Password ( page 22 step 1 to 7), if it hasn't yet
- 2** ● **To enable the Coffee break Password**
Using  and , select [Coffee break Password], then set [Enable] with .
- **To disable the Coffee break Password**
Using  and , select [Coffee break Password], then set [Disable] with .
Go to step 4.
- 3** Using  and  keys, select [Key Combination for Coffee break], then set your combination of keys with .
- 4** Press  to end the password setting procedure
- 5** Close the Setup Utility ( page 46)

Security Measures

When you want to prevent theft of or damage to data by using a floppy disk

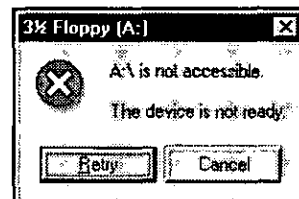
You may choose to protect the data on your computer from being accessed illegally or overwritten accidentally by using a floppy disk. You can also set your computer to be unbootable from a floppy disk.

● Preventing the use of a floppy disk

Even when one tries to access a floppy disk,



This error message is displayed.



Procedure

- 1 Run the Setup Utility (page 46)
- 2 Using **[↓]** and **[F8]**, select **[Supervisor Setup]**, then press **[Enter]**
- 3 Using **[↓]** and **[F8]**, select **[Boot Up Drive]**, then set either **[HDD → FDD]** or **[DVD → FDD → HDD]** with **[←]**

CAUTION

When changing to the **[HDD → FDD]** or **[DVD → FDD → HDD]** setting, to continue read/write operations from a floppy disk and to use the hard disk drive or CD-ROM to start, press **[Esc]** and go to step 5.

- 4 Using the **[↓]** and **[F8]**, select **[Floppy Operation]**, set **[Disable]** with **[→]**, then press **[Esc]**
- 5 Close the Setup Utility (page 46)

When you do not want your Supervisor Setup changed without permission

Set the Supervisor Password. After it has been set, no changes can be made to the Supervisor settings unless the password is entered.

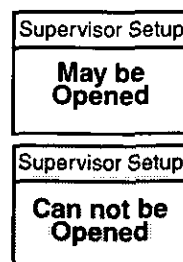
● When the supervisor password is set

In the Setup Utility (page 46), if "Enter Supervisor Password" is displayed,

Input the correct supervisor password and press **[Enter]**,



When the supervisor password is incorrect or when the user password is entered, (Or, even when the correct supervisor password is entered). page 36










(There are cases in which the Supervisor Setup does not appear on the main screen). page 46

NOTE



You may wish to protect the User Password (page 25).

Setting the Supervisor Password




(enabling, changing, disabling)

- 1 Run the Setup Utility (☞ page 46)
- 2 Using  and , select [Supervisor Setup], then press 
- 3 Using  and , select [Supervisor Password], then press 
- 4 ● To enable or change your supervisor password
Enter your password at the [Enter Supervisor Password], then press 

CAUTION

- Your password will not be displayed on the screen
- Please limit your password to seven characters. Note that there is no distinction between upper and lower case letters
- White colored keys can be used. Note that the space bar and function keys cannot be used
- Do not input your password while holding down on  or 
- Use only the upper horizontal row of numeric keys to input your user password. The numeric keys combined with alphabet keys on the lower keyboard cannot be used
- Do not forget your password. If a password is forgotten you will be unable to use your computer

● To disable your supervisor password




Using  and , select [Delete Supervisor Password], then press 
Go to step 7






5 Reenter your password at the [Enter Supervisor Password Again]

(This is for confirmation purposes)

NOTE

When you do not want the User Password enabled, changed, or disabled without permission,

use  and  to select [User Password Protection], then set [Enable] with 

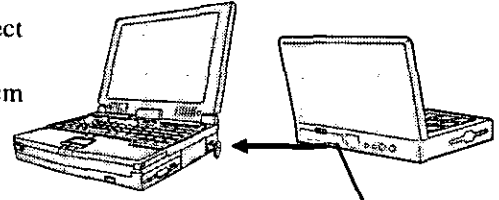
- 6 Using  and , select [Set Supervisor Password], then press 
- 7 At the confirmation screen, press 
- 8 Press  to end the password setting procedure
- 9 Close the Setup Utility (☞ page 46)

Infrared Data Communications

Your computer is equipped with an infrared communications port enabling you to transfer data without a cable.

Preparations for Infrared Data Communications

- Set the address of your infrared communications port to enable.
- Position your computer so that the port is face-to-face with the port of another computer.
- Be sure the computers are not in direct contact with one another.
- A port-to-port distance of 20 to 50 cm (8 to 20 inches) is recommended.



Infrared Communication Port (IrDA compliant)

CAUTION

In the Setup Utility, select [IrDA] in [Supervisor Setup] and set [Automatic (PnP)] or [2F8]. Setting [OFF] will make infrared data communications impossible.

● Problems with infrared data communications

- An object is located between both ports.
- There are other electronic devices nearby causing interference, such as a television, VCR, wireless headphone, etc.
- Direct sunlight or white glowing light, such as fluorescent lighting; can cause interference with communications between the ports.

Running TranXit™

TranXit comes preinstalled and allows you to perform infrared data communications, such as the transfer of data or the updating of information between two computers. Note that both computers need to have TranXit installed and running.

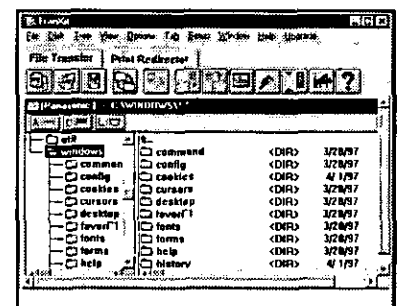
● Running the program

Select [TranXit] from [Start] - [Programs] - [TranXit].



NOTE

Online help is available on how to use TranXit. Click [TranXit Quick Reference Guide] in [Start] - [Programs] - [Panasonic].



● Assigning different "Computer Name"

It is necessary to assign a different "Computer Name" to each computer; select [Computer Name] in [Setup] to change the name.

CAUTION

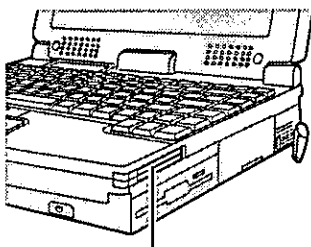
- In [Control Panel]-[Add/Remove Programs], if [Infrared] is added, TranXit can not be used. For TranXit to be operable, [Infrared] must not be set.
- Exit TranXit before entering the suspend or hibernation mode. Start TranXit again after the computer resumes.

Add-ons/Peripherals

Devices capable of being used by your computer are listed in the table below.

Device(s)	Where to connect	Reference
PC Cards (Modem, LAN, SCSI, etc.)	PC Card Slots	☞ below
Serial Devices (Mouse, Modem, etc.)	Serial Port	☞ page 49
Extra Memory	RAM Module Slot	☞ page 28
External Display	Ext. Display Port	☞ page 29
Printer	Parallel Port	☞ page 30
Docking Unit (CF-VEB611)	Expansion Bus Connector	☞ page 30
Port Replicator (CF-VEB612A)	Expansion Bus Connector	☞ page 30
Keyboard, External Mouse [Type PS/2], etc.	Ext. Keyboard/Mouse Port	☞ page 49
Speaker/Headphone	Headphone Jack	☞ page 49
Microphone	Microphone Jack	☞ page 49

Using PC Cards



PC Card Slots

Your computer has two PC Card slots. These slots conform to the PC Card Standard; therefore, communications and SCSI devices may be utilized. The slots allow you to use two Type I or Type II cards (or one Type I and one Type II), or one Type III card.

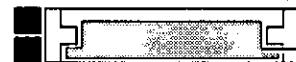
● Type I or II

Two cards can be used simultaneously.



● Type III

One card can be used only in the bottom slot.



Bottom Slot

CAUTION

- Please check the PC Cards' specifications. Be sure the total operating current does not exceed the specified limit. Damage may result otherwise.
Allowable Current (total for two slots): 3.3 V: 400 mA, 5 V: 400 mA, 12 V: 120 mA
- There are times when both a Type I card and a Type II card will not work at the same time.
- SRAM and FLASH ROM cards are not supported.
- When using a CardBus type card, use only that card; do not insert any other PC cards.

Installing/Removing a PC Card

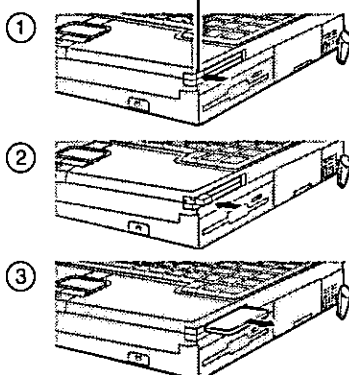
1 Power off your computer (☞ page 11)

Do not shut down using the suspend or hibernation mode.

CAUTION

- Do not install or remove peripherals while your computer is in the suspend (⌘) or hibernation (⌘ and ⌘) mode; abnormal operation may result.
- Before removing a PC Card, go to [Socket Status] (in [Start] - [Settings] - [Control Panel] - [PC Card (PCMCIA)]), select the PC Card slot and press [Stop].

PC Card Eject Button



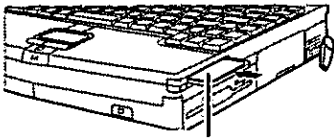
2 Removing a PC Card (or the dummy card)

- ① Press the button a second time to cause the PC card to pop out part way.
- ② Pull the PC Card the rest of the way out.
- ③ Insert the dummy card.

NOTE

Dummy cards are provided at the time of purchase. They provide protection for the PC Card slots against such things as dust.

Add-ons/Peripherals



Label-side up

● Installing a PC Card

Simply slide the PC Card in until it snaps into place.

Please refer to the manual for each card on how to install the card (insertion is typically label-side up).

3 Turn your computer on

There are some PC Cards that require a special or updated device driver be installed. Follow the instructions on the screen and read any related manuals on how to install device drivers.

NOTE

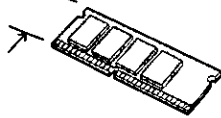
You may need to install a driver from the Windows 95 CD (included) or a PC Card's floppy disk. Simply follow the on-screen instructions and read the PC Card's operation manual on how to install the driver.

CardBus:

- You may experience noise when using a CardBus card, inserted in the PC Card slot. Also, please note that a parallel device in the ECP mode may not function. Do not use the ECP mode and disable the sound chip (in Setup Utility - Supervisor Setup - Sound chip and Parallel Port Mode) when using a CardBus card.
- Use a CardBus card alone with no other card inserted.

Adding Memory

31.7 mm (1.25")
or less



RAM module specifications

144 pins, 60/70 ns, 3.3 V
SO-DIMM, EDO

CAUTION

RAM modules are extremely sensitive to static electricity. There are cases where static electricity generated by the human body has adversely affected such modules. In addition, it is easy to damage the RAM modules or internal components of the computer. Therefore, when installing or removing a RAM module, handle the module with extreme care.

Installing/Removing the RAM Module

1 Power off your computer (☞ page 11)

Do not shut down using the suspend or hibernation mode.

CAUTION

Do not install or remove peripherals while your computer is in the suspend (Ⓜ) or hibernation (Ⓜ and Ⓜ) mode; abnormal operation may result.

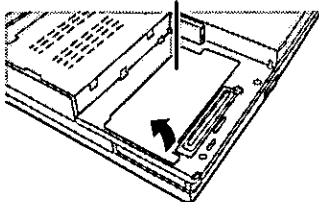
2 Remove the multimedia pocket device (☞ page 13)

3 Remove the memory cover

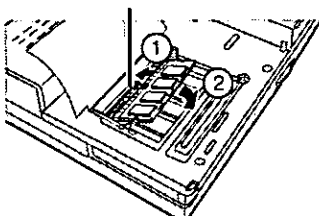
CAUTION

Do not touch the terminals or internal components, insert objects other than the module, or allow foreign particles to enter. Doing so has been known to cause damage, fire or electric shock.

Memory cover

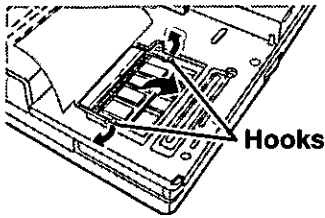


RAM Module Slot



4 ● Installing the RAM module

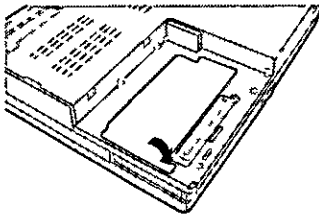
- ① Slide in the module at an angle.
- ② Snap the module into place by pushing down on it.



Hooks

● Removing the RAM module

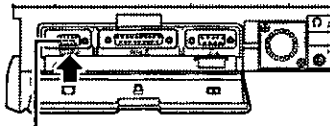
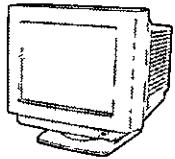
Open the left and right hooks



5 Replace the cover

6 Mount the multimedia pocket device (page 13)

Using an External Display



Ext. Display Port

1 Power off your computer (page 11)

Do not shut down using the suspend or hibernation mode

CAUTION

- Do not install or remove peripherals while your computer is in the suspend (⌘) or hibernation (⌘ and ⌘) mode, abnormal operation may result

2 Connect the external display to your computer

NOTE

For more detailed information, please refer to the operation manual for the external display

3 Turn on the display, then turn on your computer

- To display on both the LCD of your computer and the external display

1 Run the Setup Utility (page 46)

2 Using **↓** and **↑**, select [System Setup], then press **Enter**

3 Using **↓** and **↑**, select [Display], set [Simultaneous] with **←**, then press **Esc**

4 Close the Setup Utility (page 46)

5 Select your external display

Set your external display for [Models] in [Start] - [Settings] - [Control Panel] - [Display] - [Settings] - [Advanced Properties] - [Monitor] - [Change] - [Show all devices], then press **OK**

Add-ons/Peripherals

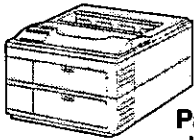
Using a Printer

1 Power off your computer (page 11)

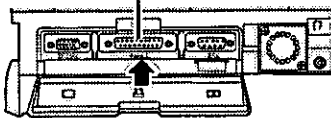
Do not shut down using the suspend or hibernation mode.

CAUTION

Do not install or remove peripherals while your computer is in the suspend (⌘) or hibernation (⌘ and ⌘) mode; abnormal operation may result.



Parallel Port



2 Connect the printer to your computer

NOTE

Some printer cables may be difficult to connect, and may require removal of the rear cover. Take care not to lose the cover.

3 Turn on the printer, then turn on your computer

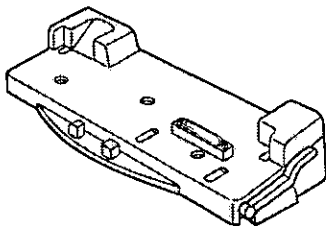
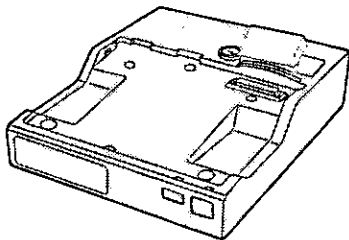
4 Setting your printer

Go to [My Computer] - [Printers]. Find your printer's icon, double-click on it, and click [File] - [Set As Default]. If no icon is available, select [Add Printer] and install the driver program.

NOTE

You may need to install a driver for your printer. Simply follow the on-screen instructions and refer to the operation manual for the printer on how to install the driver.

Connecting a Docking Unit or Port Replicator



The port replicator (CF-VEB612A) or docking unit (CF-VEB611) connects to the expansion bus connector on the bottom of your computer.

When your computer is not connected to the port replicator or docking unit, be sure that the expansion bus port on the bottom of the computer is covered.

For more detailed information, please refer to the operation instructions for the port replicator or docking unit.

NOTE

- CardBus type PC Cards cannot be used in the PC Card slots of the port replicator.
- When the port replicator is connected to your computer and a total of three or more PC cards are being used, deactivate unnecessary equipment using [Supervisor Setup] in the Setup Utility.

To change your hard disk, consult your nearest Panasonic Dealer or authorized Service Center

CAUTION

To customers:

- To change your hard disk, consult your nearest Panasonic dealer or authorized Service Center
- Be sure to back up all important data before the change

To technicians (at a Panasonic dealer or authorized Service Center):

Be careful when replacing the hard disk. The hard disk is extremely sensitive to shock. In addition, static electricity could later affect some internal components.

Installing/Removing the hard disk

(For technicians at Panasonic dealer or authorized Service Center)

1 Power off your computer (page 11)

Do not shut down using the suspend or hibernation mode

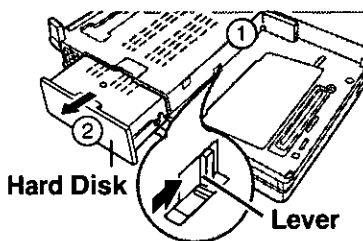
CAUTION

- Do not install or remove peripherals while your computer is in the suspend () or hibernation () and () mode, abnormal operation may result

2 Remove the multimedia pocket device (page 13)

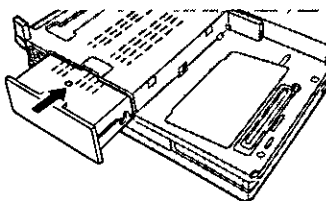
3 Removing the hard disk

- ① Slide the lever to the right
- ② Remove the hard disk drive



● Installing the hard disk

Push the hard disk drive in until it snaps into place



4 Mount the multimedia pocket device (page 13)

Usage, Carrying and Maintenance

Usage Environment

● Environment

- Place the computer on a flat stable surface.
- In use: Temperature: 5 °C to 35 °C
(41 °F to 95 °F)
Humidity: 30% to 80% RH
(No condensation)
- Not in use: Temperature: -20 °C to 60 °C
(-4 °F to 140 °F)
Humidity: 30% to 90% RH
(No condensation)

● Places not to use your computer

- Such areas may result in damage to the computer.
- Areas exposed to direct sunlight**
- Areas with electronic equipment**
These areas may interfere with your display or cause your computer to produce strange sounds.
- Areas with extremely high/low temperatures**
- Do not leave things near the computer that are sensitive to heat. During operation, the computer can become quite hot.



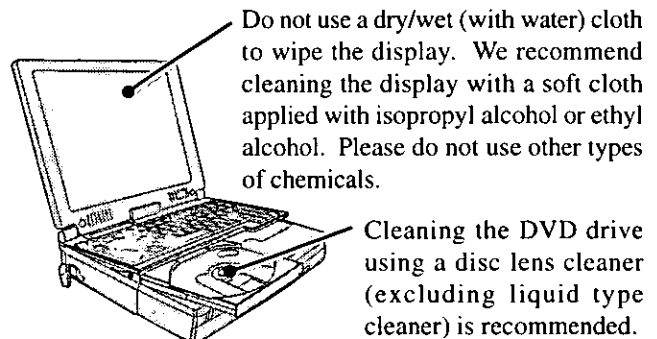
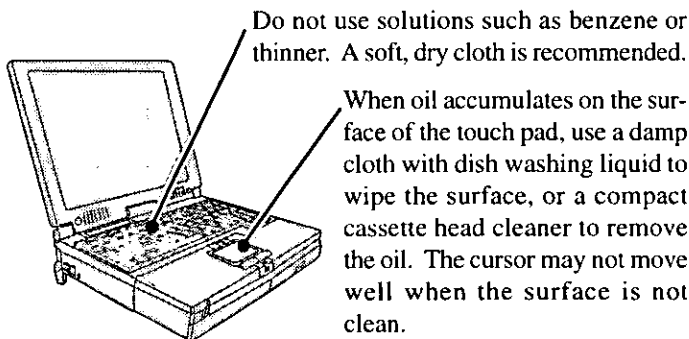
Carrying

- It is a good idea to make backup copies on floppy disks and carry them with you.
- Do not leave a floppy disk in the drive while transporting your computer.
- Do not carry your computer when it is ON.
- We recommend preparing a fully charged battery (and optional charger, if possible).
When transporting spare batteries inside a package, briefcase, etc., it is recommended that the batteries be stored in a plastic bag.
- Do not carry the computer while the display is open, or carry it by gripping the display.
- Do not put anything (e.g., a piece of paper) between the display and keyboard.
- Do not drop or hit your computer against solid objects.
- If you have to ship your computer, make absolutely sure that it is packed with adequate protection.

When flying

Always carry your computer with you. Never check it with luggage.

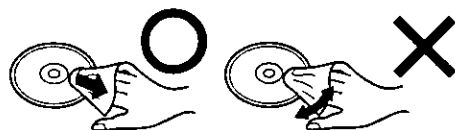
Maintenance



CD-ROM

- Do not allow discs to become dirty or scratched.
- Do not place or store discs in locations exposed to heat, direct sunlight, humidity or dust.
- Do not write on the surface of the disc with ball-point pen or other writing instrument.
- Do not drop, bend, or place heavy objects on top of discs.
- If the disc is brought from cold into a warm environment, moisture may form on the disc. Wipe this moisture off with a soft, dry, lint-free cloth before using the disc.
- Cleaning the disc using a disc cleaner (LF-K022DC) is recommended once every 2 or 3 months.

If a disc gets dirty, after wiping the disc with a moist, soft cloth, wipe it with a dry cloth. Always wipe from the center toward the edge.



Computer Diagnosis

List of Error Codes

If a problem occurs with your hardware, and [POST Start up Error(s)] is displayed along with the error code(s), follow the on-screen instructions


- Setup** Setup Utility (☞ page 46) is started Run [Load Default Settings (PnP)]
Next, the Setup Utility must be run again to input the appropriate operating environment settings
- Exit** Ignore the error message(s), and restart the computer

Code	Description
062	Boot failure--default configuration used
101	System Board Failure
102	System Board Failure
106	System Board Failure
114	Adapter ROM Error
151	System Board Failure
161	Bad CMOS Battery
162	Configuration Change Has Occurred
162	Configuration Error
163	Date and Time Incorrect
164	Memory Size Error
201	Memory Size Error
301	Keyboard Error
303	Keyboard Error
662	Configuration Change Has Occurred
762	Configuration Change Has Occurred
962	Configuration Change Has Occurred
1162	Configuration Change Has Occurred
1762	Configuration Change Has Occurred
1780	Hard Disk Error
1800	PCI Error
1801	PCI Error
1802	PCI Error
1803	PCI Error
1804	PCI Error
1805	PCI Error
1806	PCI Error
1962	IPL Error
I9990301	IPL Error
I9990305	IPL Error

Using the Self-diagnosis Program

Follow the procedure below to check whether each part of your computer is operating properly

- 1** To run the program, insert the Firstaid FD you created into the floppy disk drive, then turn your computer on
- 2** When the display below is shown, select [1. Boot]
 - 1 Boot
 - 2 Restore HDD to factory default
- 3** At the MS-DOS prompt (A:\WINDOWS\COMMAND>), input the following:

diag63 

Follow the messages on the screen

Dealing with Problems

When a problem occurs, please refer to this page. If you think it has to do with the software application you are using, please read the related manual. If for some reason you still cannot figure out the problem, please consult your nearest Panasonic dealer.




● Starting Up

<p>The power indicator or battery indicator is not lit</p>	<ul style="list-style-type: none"> ● Check the cable connection for the AC adapter. page 6 ● Check to see if a fully charged battery is properly installed. page 19 ● Pressing the reset button will solve the problem. page 49
<p>[Enter Password:] or is displayed</p>	<p>Please input your password. If you have forgotten it, consult your nearest Panasonic dealer.</p>
<p> is not displayed (Once this icon is executed, it will not be displayed later)</p>	<p>If before you double-click it disappears, select [Start]-[Run], input [c:\util\avapp\psetup.bat], and press . Follow the message on the screen.</p>
<p> is not displayed</p>	<p>Select [Start]-[Run], input [c:\util\avapp>manual\seticon.bat], and press .</p>
<p>[POST Start Up Error(s)] is displayed</p>	<p> page 33</p>
<p>The pre-memory count, Windows startup, or an operation is extremely slow</p>	<p>Run [Load Default Settings (PnP)] in the Setup Utility. This will restore the Setup Utility's settings to their default values (except the password settings). Then, the Setup Utility must be run once again for you to input the appropriate operating environment settings. (The processing speed depends on the application software used, so this operation may not cause the processing speed to increase.)</p>
<p>The date and time are incorrect</p>	<ul style="list-style-type: none"> ● You can set the date and time through [Date/Time] in [Start] - [Settings] - [Control Panel]. Another way is with the DATE and TIME commands in MS-DOS. ● If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Please consult your nearest Panasonic dealer.


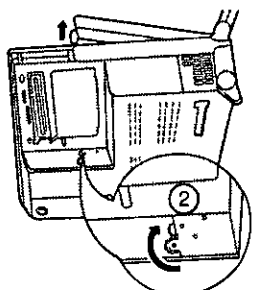
● Battery Indicator

<p>The red battery indicator lights. The status LCD indicating the remaining capacity of the battery pack flashes. Repeated beeps sound while the computer is in use.</p>	<p>The battery level is low. Connect the AC adapter or replace the battery pack with a fully charged one. If you have neither the adapter nor an extra battery, save your data and power off your computer.</p>
<p>The red battery indicator lights, a beep sounds, and the status LCD battery indicator displays "L"</p>	<p>The battery temperature has risen due to electrical discharge caused by a large load. Connect the AC adapter, set the power-saving function, and turn down the brightness of the display to reduce the load on the battery.</p>
<p>The red indicator blinks</p>	<ul style="list-style-type: none"> ● The battery pack or recharging function may be defective. Quickly remove the battery pack and disconnect the AC adapter, then connect them again. ● If the problem persists, consult your nearest Panasonic dealer.
<p>The red indicator lights (or a 99% reading is displayed) for an extended period of time</p>	<p>When the battery pack is fully charged, turn on your computer, unplug the AC adapter, then completely discharge the battery.</p>
<p>After the AC adapter is connected, the orange indicator blinks five times</p>	<p>Unable to charge because of an improper temperature range. page 20</p>
<p>The Orange indicator blinks (Recharging is taking too much time or not happening at all)</p>	<p>Recharging while using the computer: Disable (remove the check mark of) the [Auto insert notification*] for CD-ROMs. * Select [Start] - [Settings] - [Control Panel] - [System] - [Device Manager] - [MATSHITA DVD-ROM SR-8183] - [Settings].</p>

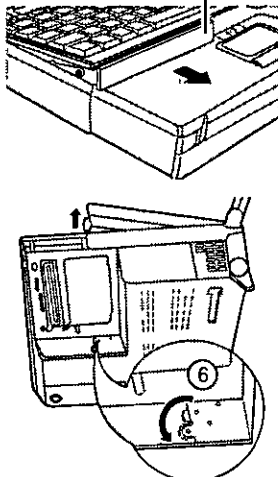
● Display

<p>Even after powering on, no display</p>	<ul style="list-style-type: none"> ● The brightness can be adjusted with [Fn] + [F6] [F7] ● When purchasing the computer, the display setting has been preset for an external display. If you connect an external display, the screen is displayed on the external display. ● When there is no display to an external display, <ul style="list-style-type: none"> • Check your cable connection for the external display • Confirm your display is on ● If your computer is connected to an external display and the internal LCD has been set to "off", and the computer is placed in the hibernation or suspend mode, the internal LCD will remain in the "off" mode if the external display is not connected when the computer is restarted. In this case, re-connect the external display and reboot the computer.
<p>The power has not been cut, but after a certain period of time, there is no display</p>	<ul style="list-style-type: none"> ● Has the computer been set to the power-saving mode? When  is displayed, the computer is in the Standby Mode. To resume operation of your computer, press any key. ● To save power, your computer may have automatically entered the hibernation mode. When  and  are displayed on the Status LCD, the computer is in the Hibernation Mode (☞ page 12).
<p>An afterimage appears</p>	<p>If an image is displayed for a prolonged period of time, an afterimage may appear. This is not a malfunction. The afterimage will disappear when a different screen is displayed.</p>
<p>The motion of the mouse cursor is not smooth</p>	<p>Select [Start]-[Settings]-[Control Panel]-[Mouse]-[Motion] and check [Show pointer trails].</p>





● Disk (Disc) Operations

<p>Cannot read/write to a floppy disk</p>	<ul style="list-style-type: none"> ● Has the floppy disk been correctly inserted? ● Has the floppy disk been correctly formatted? ● Your floppy disk drive may not have been properly set in the multimedia pocket. ● Has the Setup Utility been used to set [Floppy Operation] to [Enable]?
<p>Unable to write to a floppy disk</p>	<p>Is the floppy disk write-protected? ☞ page 5</p>
<p>How to format a floppy disk is unclear</p>	<p>Select [Format] in [My Computer] - [3 1/2 Floppy (A :)] - [File]. After confirming the disk volume and format type, click .</p>
<p>Unable to read/write to the hard disk</p>	<ul style="list-style-type: none"> ● Your drive or file may not have been properly set. ● Check to see if the hard disk is full. If it is full, delete unnecessary files. ● Your hard disk content may be corrupted. Consult your nearest Panasonic dealer.
<p>Unable to access DVD drive</p>	<ul style="list-style-type: none"> ● Has the Setup Utility been used to set [DVD Operation] to [Enable]? ● The drive is sensitive to dust and other foreign matter, cleaning may be required. Or, the disc may be disfigured, have scratches making reading impossible, or dirty. ● For information on trouble shooting concerning the DVD Player, please refer to the CF-63 Quick Guide available as an on-line manual on the hard disk.
<p>Unable to remove the disc</p>	<p>To remove a disc when the computer is off</p> <div style="display: flex; align-items: center;">  <ol style="list-style-type: none"> ① Remove the multimedia pocket device (☞ page 13) ② Turn the knob to as far as it will go in the clockwise direction </div>


Dealing with Problems

<p>Unable to remove the disc</p>	<p>③ Emergency Hole</p> 	<p>③ Insert a dull pointed object like a ball point pen into the emergency hole. Pushing it completely to the end will free the tray so that it can be pulled out.</p> <p>④ Remove the disc.</p> <p>⑤ Push the tray all the way in.</p> <p>⑥ Turn the knob to as far as it will go in the counter-clockwise direction.</p> <p>⑦ Mount the multimedia pocket device.</p>
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● Character Input

<p>Unable to input anything but numerals</p>	<p>If NumLK and KeyPad are on, the Numeric Key Pad is ON. To switch it OFF, press  + .</p>
<p>Only capital letters are being input</p>	<p>If CapsLK is on, the Caps Lock is ON. To switch it OFF, press .</p>
<p>How to input European characters (ß, à, ç) or symbols is unclear</p>	<p>Select [Start] - [Run], input [c \windows\charmap.exe] and press . The Character Map will be displayed. Point to the desired font name and select it.</p>


● Setup Utility

<p>[Enter Password:] or  is displayed</p>	<p>Enter the User Password or Supervisor Password. If you have forgotten it, consult your nearest Panasonic dealer.</p>
<p>[Supervisor Setup] is not displayed in the menu</p>	<p>At the start of the computer when [Enter Password] is displayed, you have to enter the Supervisor Password. When both the User Password and Supervisor Password have been set, if you enter the User Password, [Supervisor Setup] will not be displayed (☞ page 46). If [Supervisor Setup] is not displayed even after entering the Supervisor Password, you have to delete the User Password. Run the Setup Utility program again and input the Supervisor Password.</p>
<p>[User Password] cannot be selected</p>	<p>[User Password Protection] in [Supervisor Setup] may be enabled.</p>
<p>[Coffee break Password] or [Key Combination for Coffee break] cannot be selected</p>	<p>You need to set the User Password.</p>
<p>[Supervisor Password] cannot be set</p>	<p>If the User Password has been set first, the Supervisor Password can not be the same as the User Password. Another password needs to be entered.</p>

● Connecting Peripherals

Your peripheral does not work (An error occurs while installing the driver)	You need to use drivers conforming to Windows 95 Version 4 00 950B (OSR-2) Some earlier drivers will no longer work For more information, please ask the source of the driver in question
Unable to print	<ul style="list-style-type: none"> ● Check the computer-printer connection ● Make sure the printer is on ● Make sure the printer is in the online state ● Make sure paper is in the printer tray and there is no paper jam ● Has the Setup Utility been used to set [Parallel Port (Address)] to [Automatic (PnP)], [378] or [3BC]?
The cursor does not move from mouse operations	<ul style="list-style-type: none"> ● The Coffee break Password may be set, check if ☕ is displayed on the Status LCD If this is the case, input the Coffee break Password ● Check your mouse connections, then reboot the computer from the keyboard From the keyboard, you may choose to press down on , then select [Shut Down]
The device connected to the serial port does not work	<ul style="list-style-type: none"> ● Check the connection ● Confirm that the device driver for the serial port works Please refer to the reference manual for the device ● Confirm that two mouse devices are not connected, one through the ext keyboard/mouse port and the other through the serial port ● Try setting the [Internal Pointing Device] to [Disable] in the Setup Utility ● Has the Setup Utility been used to set [Serial Port] to [Automatic (PnP)] or [3F8]?
External mouse or track ball connected to the PS/2 port does not work	In some circumstances, if a PS/2 external mouse with a serial interface conversion function is connected to the port, it may not operate normally Connect it to the serial port
A PC Card does not work	<ul style="list-style-type: none"> ● Make sure the card is properly inserted ● Confirm that the card conforms to the PC Card Standard ● A driver for Windows 95 may need to be installed ● Note that after a driver is installed, the computer must be rebooted ● There may be no interrupt request (IRQ) line available Deactivate unnecessary equipment using [Supervisor Setup] in the Setup Utility ● Read the PC Card's manual Or, you may need to call the source of the PC Card
You do not know the available RAM module	 page 28
The RAM module has not been recognized	Make sure the RAM module has been properly inserted
The address map for IRQ, I/O port address, etc. is unclear	Check the address map by going to [View Resources] in [Start] - [Settings] - [Control Panel] - [System] - [Device Manager] - [Computer] - [Properties]

● Others

You wish to initialize the settings of each driver	See "Reinstalling Software" ( page 39) for instructions on how to make the settings for each of the various required drivers
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Technical Information

Network

- The network connection may be severed when entering the standby and suspend (hibernation) mode. Be sure to disable the standby timeout and hibernation timeout settings with the Setup Utility if you require a network environment.
- When the power saving function is running, TranXit and other communications software may malfunction. For example, communications may be halted if either **[Fn] + [F10]**, the LCD panel open/close switch or the suspend mode (hibernation) is activated.

About HDD DMA Transfer

Do not add the check mark to [DMA] in [Start] - [Settings] - [Control Panel] - [System] - [Device Manager] - [Disk drives] - [GENERIC IDE DISK TYPE**] - [Settings]. This may damage data on the hard disk.

FAT32

This computer uses a new, highly efficient file system called FAT32. Please note the following regarding FAT32.

- Some software will not run normally:
Do not run disk utilities and other software not compatible with FAT32. Doing so could cause incorrect information such as hard disk capacity to be shown or could destroy hard disk data.
Contact the dealer or other outlet for the software and obtain the latest version.
- Non-recognition from other operating systems:
You will not be able to view the contents of your hard disk from other operating systems. (For example, you will not be able to view the contents of your hard disk even when starting up using a floppy disk created with another computer.)
Other operating systems cannot therefore be installed. To install the operating system, please refer to the method listed below. If you are unsure about this explanation, do not proceed with installation of operating system.
 - ① Back up the contents of your hard disk.
 - ② Start up with the Firstaid FD.

- ③ When the [Windows 95 Startup Menu] appears, select [1. Boot].
- ④ Enter FDISK **[Enter]**.
- ⑤ Select [3. Delete partition or Logical DOS Drive].
- ⑥ Select [1. Delete Primary DOS Partition].
- ⑦ Start up again following the instructions on the screen.

These steps will allow you to install most operating systems. The contents of the hard disk will be deleted. Always make sure to back up the hard disk beforehand.

The following steps will normally be unnecessary, however, if installation is not possible, try performing them.

- ⑧ Start up again using the Firstaid FD to open FDISK in the same way.
- ⑨ When [Do you wish to enable large disk support (Y/N)...?] appears on the first screen, press "N", then **[Enter]**.
- ⑩ Select [1. Create DOS partition or Logical DOS Drive].
- ⑪ Set the partition following the instructions on the screen and activate it.
- ⑫ Start up again following the instructions on the screen.

Re-installation

When Windows is started up while pressing the **[F8]** key, the [Microsoft Windows 95 Startup Menu] is displayed. After

re-installing Windows, [Previous version of MS-DOS] also appears in this menu, however, do not select this item as MS-DOS is not installed.

Power saving function in the sound chip

The sound chip has its own power saving function. You can enable this function in the [OPL3-SAX power management] tab (select [Start] - [Settings] - [Control Panel] - [Power]). In [Non Power Save mode], the power saving function is disabled. This is the default value.
In [Minimum level of power save], the power saving function is

enabled. You may encounter some problems, such as no sound from music CDs and the keyboard's volume control (**[Fn] + [F10]**) will not function.
Do not select [Intermediate level of power save] or [Maximum level of power save] because noise is likely.

Reinstalling Software

Before Reinstallation

● Preparing your disks

You will need the Firstaid FD (you earlier made copies of), Firstaid CD (included), Windows 95 CD (only use enclosed CD) and a blank floppy disk for the startup disk

NOTE

If you have not created Firstaid FD, a message will appear at startup urging you to make backup copy. If there is no message, backup copy have already been created

● Important

- Save all important data. If reinstallation is carried out, all data existing prior to the installation will be lost. The reinstallation will return the computer to factory condition
- Be sure to remove all PC Cards and disconnect all peripherals before the reinstallation procedure

Reinstalling

● Windows 95 (HDD format)

Two options are available, one for beginners and the other for advanced users

- For beginners: **Returning to factory default condition.**
- For advanced users: **Returning drive C to factory default condition.**

CAUTION

- The Advanced Users option should only be performed when the hard disk has been formatted into two or more partitions
- If data on your hard disk is compressed, the data should be uncompressed

- 1 Insert the Firstaid FD, and turn the computer on, then run the Setup Utility program (☞ page 46)
- 2 Select [Load Default Settings (PnP)], then press . At the confirmation message, press .
- 3 Close the Setup Utility (☞ page 46), this screen should appear

```
Microsoft Windows 95 Startup Menu
1 Boot
2 Restore HDD to factory default (For beginners)
3 Restore HDD to factory default (For advanced users)
Enter a choice 1
```

- 4 For beginners: select [2 Restore HDD to factory default (For beginners)]
- For advanced users. select [3 Restore HDD to factory default (For advanced users)], then input the following

reinst

At the confirmation message, press . Simply follow the on-screen instructions

- 5 When your computer prompts you to insert the "Firstaid CD", please do so. When the computer reboots, the startup menu will appear. select 2 and continue to follow the on-screen instructions

When your computer prompts you to insert the "Firstaid FD", press

When the computer reboots, the startup menu will appear, select 2 and continue to follow the on-screen instructions

- 6 When your computer prompts you to insert the "Windows 95 CD", please do so. Windows 95 has setup started. Follow the on-screen instructions

NOTE

- With the exception of the instruction below, please select all default values displayed by the Setup Wizard. Be sure to add the check mark to [Sound, MIDI, or Video Capture Card] at the [Analyzing Your Computer]
- Have a blank disk on hand to create a "Windows 95 Startup Disk". Immediately after creating this disk, enter the Firstaid FD into the floppy disk drive and press . (Note: A system error will result if the Firstaid FD is not inserted. If this occurs, insert the Firstaid FD and press [Retry])

- 7 At the [Finishing Setup], remove the floppy disk and press . Windows will restart after all the settings have automatically been made

- 8 At the [Date/Time Properties], press

- 9 At the [Add Printer Wizard], press

- 10 When the display appears indicating the establishment of the system settings, press . The computer will reboot. (When the welcome screen appears, press)

Reinstalling Software

● System setup

- 11 In [Start] - [Run], input [c:\install.bat], then press . Rebooting will be done automatically.
- 12 Delete the "c:\install.bat" and "c:\install.pif" files.
- 13 In [Start] - [Run], input [c:\util\msupdate\mrm2upd.exe], then press .
- 14 At the [Windows 95 Update], press , then press .

● Device Manager 1

- 15 In [Start] - [Settings] - [Control Panel] - [System] - [Device Manager], for each item in [Sound, Video and Game Controller], press to delete it, then press to confirm the deletion.
 - 16 Select [Generic Ir Serial Port (COM2)] in [Ports (COM & LPT)], press , then press .
 - 17 Select [PCMCIA socket] and if the [PCIC or compatible PCMCIA controller] is displayed, press , then press .
 - 18 Check [View devices by connection] and select [PCI bus] in [Plug and Play BIOS], press , then press .
When the message appears to reboot your computer, press . Rebooting will be done automatically. If the computer asks you to insert the Windows 95 CD-ROM, press . Input [c:\windows\system], then press .
At the [Update Device Driver Wizard], press , then press .
- At the [System Setting change], press .

● Sound driver

- 19 In [Start] - [Settings] - [Control Panel] - [System] - [Device Manager] - [Other Devices] - [Unknown Devices] - [Driver] - [Update Driver], select [Yes (Recommended).], then press .
 - If [Other Devices] is not displayed, select and at the [Update Device Driver Wizard], press followed by . It will be displayed.
- 20 Select , input [c:\util\drivers\sound], then press .
- 21 At the [Update Device Driver Wizard], select .
- 22 Press to return to the [System Properties].
- 23 At the [System Properties], press .

● Video driver

- 24 In [Start] - [Settings] - [Control Panel] - [System] - [Device Manager] - [Display adapters] - [Standard PCI Graphics Adapter (VGA)] - [Driver] - [Update Driver], select [Yes (Recommended).], then press .
- 25 Select , input [c:\util\drivers\video], then press .
- 26 At the [Update Device Driver Wizard], select . The display will ask you to restart Windows; press .

● Power

- 27 Delete the check mark for [When powered by AC power] and [When powered by batteries] in [Start] - [Settings] - [Control Panel] - [Power] - [Disk Drives].
- 28 Select [Non Power Save mode] in [OPL3-SAx power management], then press .

● Device Manager 2

- 29 Delete the check mark for [Auto insert notification] in [Control Panel] - [System] - [Device Manager] - [CD-ROM] - [MATSHITA DVD-ROM SR-8183] - [Settings].
- 30 Set [Start drive letter] in [Reserved drive letters] to [L:], then press .
- 31 Set [Mobile or docking system] in [Performance] - [File System] - [Hard Disk] - [Typical role of this machine], then press .
- 32 At the [System Properties], press . The display will ask you to restart Windows. Remove the floppy disk and press .

● Display

- 33 Select [Super VGA 1024 X 768] in [Start] - [Settings] - [Control Panel] - [Display] - [Settings] - [Advanced Properties] - [Monitor] - [Change], then press .
- 34 At the [Advanced Display Properties], press .
- 35 Select [True Color (24bit)] in [Color palette].
- 36 Select [1024 by 768 pixels] in [Desktop area], then press .
 - If [Compatibility Warning] screen appears, select [Apply the settings without restarting?], then press .
- 37 At the [Display Properties], press .
- 38 At the [Display Setting] or [System Setting Change], press .

● Volume control

- 39 In [Start] - [Programs] - [Accessories] - [Multimedia] - [Volume Control] - [Options] - [Properties], check [Playback] and set the check mark for [CD Audio], then press .
- 40 In [Option] - [Properties], check [Recording] and set the check mark for [CD Audio] and [Loop Back].

● FMV Pack2 device driver, DVD Player

- 41 Power off your computer. (☞ page 11)
Do not shut down using the suspend or hibernation mode.
- 42 Install the FMV Pack2. (☞ page 13)
- 43 Turn your computer on. (☞ page 8)
- 44 At the [Update Device Driver Wizard], press .
Select .
- 45 Input [c:\util\drivers\fmv], then press .
- 46 Press .
The display will ask you to restart Windows; press .

● DVD drive (device driver)

- 47 In [Start] - [Run], input [c:\util\drivers\dvd\setup], then press
- 48 At the [Setup Software], press
- 49 Select [Install ATAPI-DVD device driver], then press
- 50 At the [Restart Windows], select [Yes, I want to restart], then press

CAUTION

In [Control Panel]-[Add/Remove Programs], if [Infrared Device] is added, TranXit can not be used. For TranXit to be operable, [Infrared Device] must not be set.

NOTE

- Some Windows applications differ in use from their factory-set state. To add or delete items from the menu, select [Add/Remove Programs] in [Start] - [Settings] - [Control Panel].
- At the time of purchase, the [CF-63 Quick Guide] can be found under [Favorites] in the Internet Explorer program. If reinstallation is carried out for your computer, this file will no longer be available. You may reinstall this file if necessary.

● Docking Unit (Option)

- 1 Power off your computer (☞ page 11). Do not shut down using the suspend or hibernation mode.
- 2 Place the computer on top of the docking unit (☞ CF-VEB611 Operating Instructions).
- 3 Turn your computer on (☞ page 8).
- 4 At the [Configuration Setup], press
- 5 In [Start] - [Settings] - [Control Panel] - [System] - [Hardware Profiles] - [Rename], input [CF-VEB611], then press
- 6 At the [System Properties], press
- 7 Set the **Display** (☞ page 40, step 33 to 38).

● Port Replicator (Option)

- 1 Power off your computer (☞ page 11). Do not shut down using the suspend or hibernation mode.
- 2 Place the computer on top of the port replicator (☞ CF-VEB612A Operating Instructions).
- 3 Turn your computer on (☞ page 8).
- 4 The display will ask you to restart Windows. press
- 5 At the [Configuration Setup], press
- 6 In [Start] - [Settings] - [Control Panel] - [System] - [Hardware Profiles] - [Copy], input [CF-VEB612A], then press
- 7 In [Device Manager] - [PCMCIA socket], select for each [Ricoh RL5C466 CardBus Controller] press
- 8 Select [Remove from specific configuration]
- 9 In [Configuration], select [CF-VEB612A], then press

- 10 Select [Device Manager] - [Other Devices] - [PCMCIA Card Services], then press
- 11 Select [Remove from all configurations], then press
- 12 At the [System Properties], press
- 13 Restart Windows (Select [Restart the computer] in [Start] - [Shut Down], then press)
- 14 Upon restart, the configuration menu appears. Select [2 CF-VEB612A] then Windows starts.
- 15 In [Start] - [Settings] - [Control Panel] - [System] - [Hardware Profiles], select [Dock 1], then press
- 16 At the [Confirm Profile Delete], press
- 17 At the [System Properties], press
- 18 Set the **Display** (☞ page 40, step 33 to 38).

Installing TranXit

If necessary, install TranXit with the following steps.

- 1 In [Start] - [Run], input [c:\util\tranxit\disk1\install], then press
- 2 Follow the on-screen instructions. At the [Insert Next Disk], input [c:\util\tranxit\disk2]

NOTE

To return to factory condition:

Set [Infrared] for [Connection Type] in [Connection Setup] and press [Setup Connection]. Next, set [COM2] for [Port] and [Panasonic Notebook Computer] for [Models] in [Infrared Settings]. Select default values for all other settings.

Installing Internet Explorer 3.02

If necessary, install Internet Explorer with the following steps.

- 1 Insert the Windows 95 CD-ROM.
- 2 In [Start] - [Run], input [L:\other\ie302\msie302.exe], then press . Follow the on-screen instructions.
- 3 After restarting Windows, In [Start] - [Run], input [c:\util\msupdate\auth2all.exe], then press . Follow the on-screen instructions.

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Windows 95 Setup Procedure

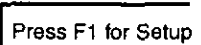

This procedure explains step 4 on page 7 in more detail

- 1** Select settings for your region, then press
- 2** Select your keyboard layout, then press
(for U S A United States 101, for U K British)
- 3** Enter your name and your company's name, then press
The License Agreement will be displayed
- 4** After reading the agreement, select [I accept the agreement] or [I don't accept the agreement], then press
If the former is selected, the [Certificate of Authenticity] will appear. If the latter is selected, the Windows setup will be aborted
- 5** Input the Product Number written on the "Certificate of Authenticity" located in the "Introducing Microsoft Windows 95 book" that comes with this computer. After doing so, press
- 6** Press
- 7** If the instruction to restart appears, press
- 8** Insert the correct time, date and time zone and click
You can also complete these settings at a later time
- 9** If you want to complete the printer settings, press
Simply follow the on-screen instructions
If not, press
You can also complete these settings at a later time
- 10** At the [Welcome to Windows], you may decide to read the introduction to Windows or to press







Setup Utility

Running the Setup Utility

To run the Setup Utility, you need to restart your computer.

➔ Upon seeing this message  ➔ press 

NOTE

- The Setup Utility will not be run if  is not pressed soon after the computer restarts. In this case, you need to restart your computer again.
- If [Enter Password:] or  is displayed, enter your password. If both the [User Password] and [Supervisor Password] have been set, after entering the User Password, [Supervisor Setup] and [Load Default Setting...] will not be displayed on the main screen. To display the [Supervisor Setup]:
 - 1 Use  + Power Switch to turn your computer off.
 - 2 Restart the computer and press  when [Press F1 for Setup] is displayed.
 - 3 When [Enter Password:] or  is displayed, enter the Supervisor Password.
- For more details, on-line help is available; press .

<Main Screen>

Setup Utility

- System Setup
- Power Management
- Supervisor Setup

Save Settings

Restore Settings

Load Default Settings (PnP)

Load Default Settings (Non-PnP)

Exit Setup

Return to the state existing at the time of Setup Utility startup, or to the settings saved with [Save Settings].

Set default settings.

• (PnP) denotes "for Windows 95".

• (Non-PnP) denotes "for other than Windows 95".




• When the Supervisor Password has been set, input of the password is necessary.


Program Completion


- Hibernation settings (page 12)
 - Power Management settings (page 18)
 - Security Settings (page 22)
 - Add-ons/Peripherals Settings (page 29)
- After you have completed all settings, you may exit the Setup Utility program.


NOTE


Key Operations

- : To display the corresponding "help" file.
- : To make a selection.
- : To display previous screen (To exit the program at the main screen).

: To move among the items.

: To move among the values of each item.

: To return to the setting before a change.

: To set the default values.

Closing the Program

Exit Setup

Settings were changed.
Do you want to save them?

Yes, save and exit the Setup Utility.
No, exit the Setup Utility without saving.
No, return to the Setup Utility.

NOTE

If the User Password has been set, the password must be entered before Windows can start.

(The display may be different if no changes to the settings are made.)

System Setup	
Internal Pointing Device	[Enable]
Speaker	[Enable]
Display	[External Monitor]*1
• User Password	
Coffee break Password*2	[Enable]
Key Combination for Coffee break*3	[Alt+Ctrl+F9]

Setting the User Password (☞ page 22)
(Unable to select when the User Password Protection has been set)

User Password	
User Password Status	Disable
Enter your new User Password twice	
Enter User Password	[]
Enter User Password Again	[]
Set User Password	
Delete User Password	

Power Management	
Power Saving	[Standard (Battery)]
CPU Speed Change Mode	Enable
HDD Motor Timeout*4	1 min
DVD Motor Timeout*4	1 min
Standby Timeout*4	2 min
Power Switch	[Hibernation]
Hibernation Timeout*5	[4 min]

☞ page 18

Sets the function of the power switch

Able to set how long the interval will be until hibernation

Supervisor Setup	
Parallel Port (Address)	[Automatic (PnP)]
Parallel Port (Data Direction)	[Bidirectional]
Serial Port	[Automatic (PnP)]
Sound Chip	[Enable]
Sound Blaster Compatible I/O	[Automatic (PnP)]
WSS CODEC I/O	[Automatic (PnP)]
Sound IRQ-A	[Automatic (PnP)]
Sound IRQ-B	[Automatic (PnP)]
Sound DMA-A	[Automatic (PnP)]
Sound DMA-B	[Automatic (PnP)]
IrDA	[Automatic (PnP)]
Floppy Operation	[Enable]
DVD Operation	[Enable]
Boot Up Drive	[FDD → HDD]
• Supervisor Password	
User Password Protection	[Disable]

Setting Supervisor Password (☞ page 25)

Supervisor Password	
Supervisor Password Status	Disable
Enter your new Supervisor Password twice	
Enter Supervisor Password	[]
Enter Supervisor Password Again	[]
Set Supervisor Password	
Delete Supervisor Password	

*1 When no external display is connected display will be through the LCD

*2 Can only be selected when the [User Password] has been set

*3 Can only be selected when the [Coffee break Password] has been set

*4 As Windows 95 employs its unique power saving function, the time specified in setup utility and the actual running time may differ

*5 Can only be selected when the [Power Switch] has been set [Hibernation]

Names and Functions of Parts

● Front

Display (LCD)

Brightness Adjustment

Bright: +

Dark: +

Status LCD

☞ CF-63 Quick Guide

Disc Eject Button

☞ page 9

Touch Pad

☞ page 10

Battery Pack Release Buttons

☞ page 21

Battery Indicator

☞ page 19

POWER Indicator

Green: Power on / CPU normal speed mode

Red: Power on / CPU slow speed mode
(The CPU cools down)

Flashing Red: CPU temperature too hot; power remains OFF

NOTE

When the temperature of the CPU rises, the processing speed is automatically reduced to protect the CPU from overheating. When the temperature of the CPU drops, the normal processing speed is automatically restored.

Speakers

● To adjust the volume*, select the on the task bar, then [Volume Control].

* You may also use the function keys to perform this operation (+ or).

● Speakers on/off: +

LCD On/Off Switch

The backlight turns off when the LCD is closed.

Tilt Stand

Extend the tilt stand to create a comfortable keyboard angle.

Ventilation Hole

Do not place objects near this ventilation area.

Security Lock

A Kensington cable can be connected to prevent theft of your computer. For more information, please read the manual that comes with the cable.

PC Card Slots

CardBus Compatible
(Confirmation with the dealer required beforehand.)

☞ page 27

MP Release Button

☞ page 13

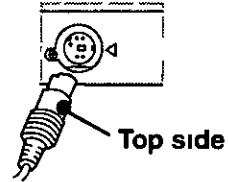
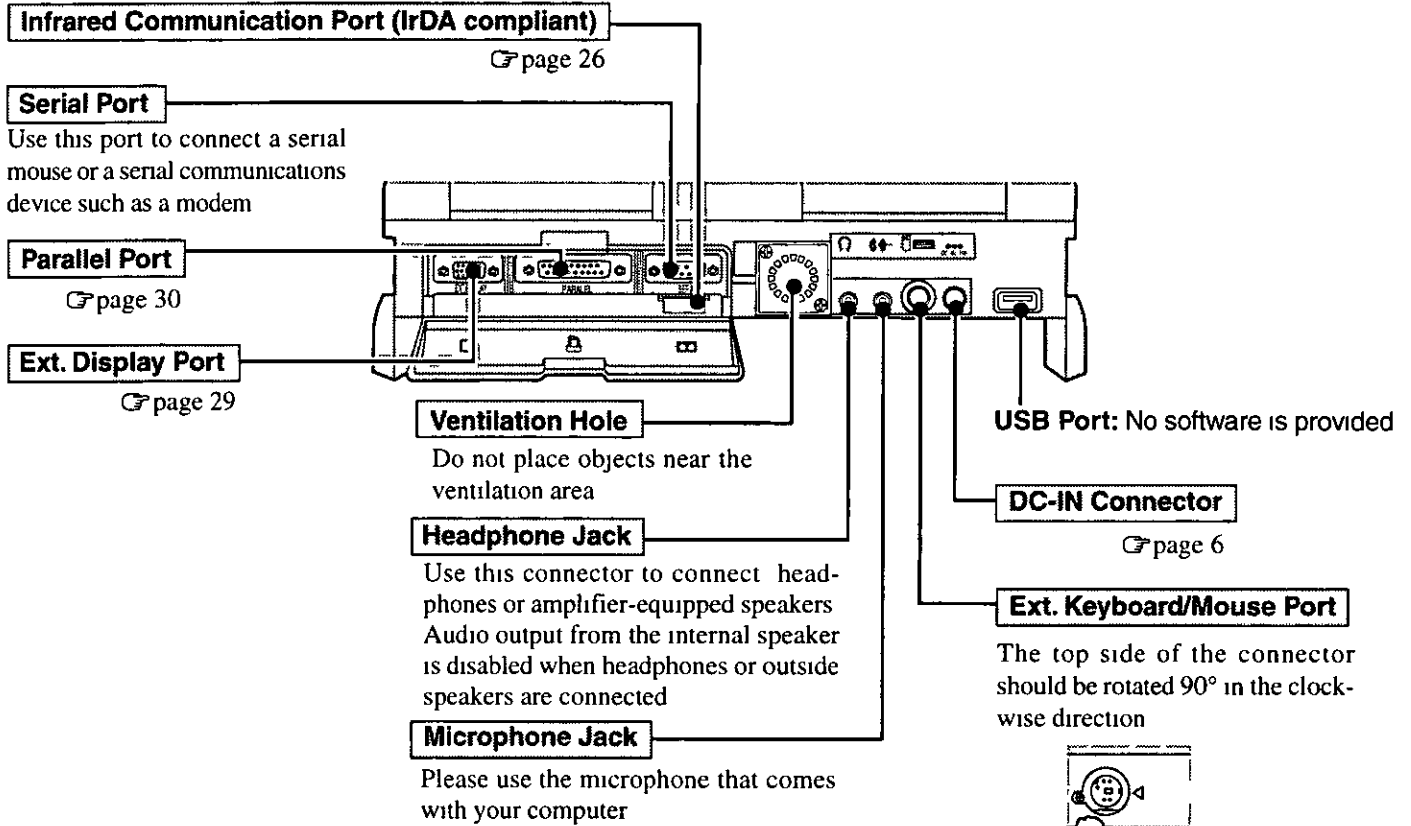
Multimedia Pocket Device (FDD or FMV Pack2)

☞ page 13

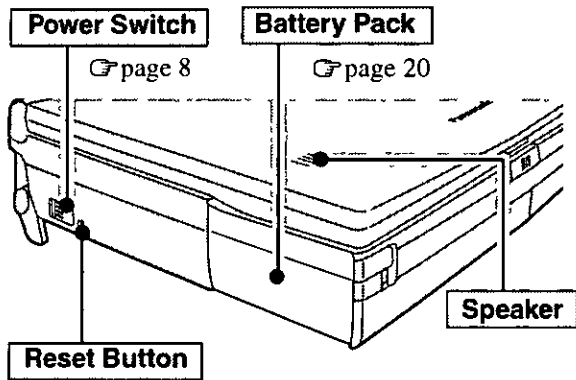
PC Card Eject Buttons

☞ page 27

● Back



● Left side

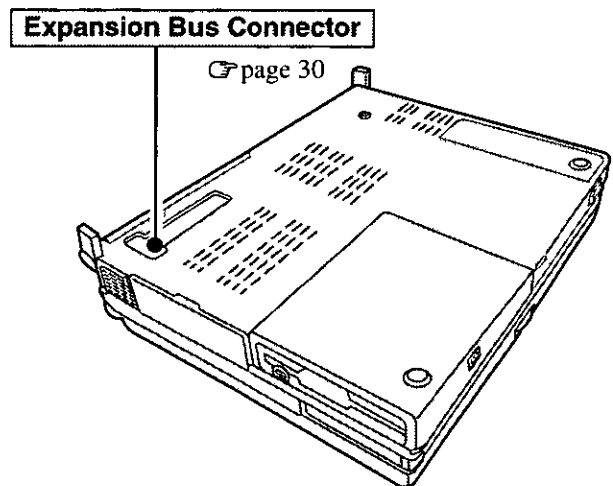


When resetting your computer, use a dull pointed object like a ball point pen. Do not use a pencil. Pencil lead can break off inside the computer and damage the computer's circuit.

CAUTION

If a problem occurs but your computer does not lock, we recommend not resetting the machine. Pressing the reset button will cause you to lose data if an application is open.

● Bottom



Specifications

● Main Specifications

Model No.	CF-63LYJ8AAM/E	
CPU	Pentium® Processor with MMX™ technology 166 MHz	
Cache Memory (second cache memory)	32 KB (256 KB)	
EDO Memory (Expandable to)	32MB (96 MB Max.)	
Video Memory	4 MB	
LCD	Type	13.3" (TFT)
	Displayed Colors	256/65536/262144 colors
Hard Disk Drive (including about 110 MB used specifically by the system)	3.24GB*	

* 1GB = 10⁹ bytes

● Other Specifications

Keyboard	Windows 95 keyboard (for U.S.A.: 87 keys, for U.K.: 88 keys)			
DVD Drive	DVD	1.5 X Standard Speed (MAX)		
	CD-ROM	20 X Standard Speed (at the outer circumference, MAX)		
Floppy Disk Drive	720 KB/1.44 MB (two-mode)			
Slots	PC Card Slots	Two Type I or Type II, or one Type III CardBus Compatible (Confirmation with the dealer required beforehand) ☞ page 27		
		Allowable current (total for two slots)	3.3 V: 400 mA, 5 V: 400 mA, 12 V: 120 mA	
	RAM Module Slot	144-pin, 3.3-V, SO-DIMM ☞ page 28		
	Multimedia Pocket	One slot (for floppy disk drive or FMV Pack2)		
Interface	Parallel Port	Dsub 25 pin female		
	Ext. Display Port	Mini Dsub 15 pin female		
	Serial Port	Dsub 9 pin male		
	Microphone Jack	Miniature jack, 3.5 DIA Input impedance 2.2 kΩ, Input voltage range 0.03 Vp-p		
	Headphone Jack	Miniature jack, 3.5 DIA Impedance 32 Ω, Output Power 4 mW (Impedance 32 Ω) x 2		
	Infrared Communication Port	IrDA compliant, 4 Mbps data transmission speed		
	Ext. Keyboard/Mouse Port	Mini DIN 6-pin female		
	Expansion Bus Port	Dedicated 240-pin female		
Speakers	Stereo Speakers (built in, four speakers)			
Sound	16 bits, 44.1 kHz PCM/FM sound (Sound Blaster PRO Compatible)			
Software	Operating System	Microsoft® Windows® 95 (FAT32 File System)		
	Utility Programs	Diagnostics program, TranXit program, DVD-Video Player program		
Battery	Battery Pack	Lithium Ion 10.8 V, 5750 mAh		
	Operating Time	Approx. 2.5- 4 hours*		
	Charging Time	Power On	Approx. 9 hours*	
		Power Off	Approx. 3 hours*	
	Clock Battery	Coin type lithium battery 3.0 V		
Operating Time		Approx. 10 years		
Pointing Device	Touch Pad (Pointing device adapting capacitance sensing method)			
FMV Pack2	Physical Dimensions	114 mm X 144 mm X 28 mm (4.5" X 5.7" X 1.1")		
	Weight	0.2 kg (0.44 lbs)		
	Power Consumption	5.0 W		
	Compatible Data**	DVD-Video, Complies with MPEG1 and MPEG2		
AC Adapter	Input	100 -240 V AC, 50 / 60 Hz	Output	15.0 V DC, 4 A
	Power Consumption	Approx. 50 W*** (maximum when recharging in the ON state)		
Physical Dimensions (w x h x d)	297 mm X 61.5 mm X 239 mm (11.7" X 2.4" X 9.4")			
Weight	Approx. 3.95 kg (Approx. 8.7 lbs) (With the floppy disk drive installed)			

* Varies depending on the usage conditions.

** However, there are cases in which some discs or data cannot be played.

*** Approx. 1.5 W when the battery pack is fully charged (or not being charged) and the computer is OFF.

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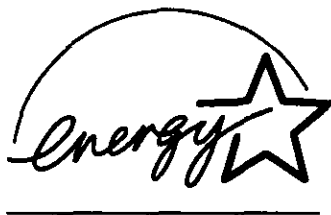
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As an ENERGY STAR Partner, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Outline of the International ENERGY STAR Office Equipment Program

The international ENERGY STAR Office Equipment Program is an international program that promotes energy saving through the use of computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, displays, printers, facsimiles, and copiers. Their standards and logos are uniform among participating nations.